



STIC Search Report

EIC 1700

STIC Database Tracking Number: 215112

TO: Betelhem Shewareged
Location: Remsen 10a65
Art Unit : 1774
February 12, 2007
Phone: 571-272-1529
Serial Number: 10 / 801356

From: Jan Delaval

Location: EIC 1700
Remsen 4a30
Phone: 571-272-2504
jan.delaval@uspto.gov

Search Notes

Access DB# 215112

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Bekelem Shewareged Examiner #: 75633 Date: 02/08/2006
Art Unit: 1774 Phone Number 301-571-272-1529 Serial Number: 101801, 356
Mail Box and Bldg/Room Location: REM 10465 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Ink jet recording material improved for light-and-gas-fastness
Inventors (please provide full names): Johan Loccafier & Stefan Lingier

Earliest Priority Filing Date: 03/18/2003

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

① Ink jet recording ^{sheet} ~~material~~ comprising a compound of Formula (1). (see claim 1).

② Ink jet recording sheet comprising at least one of the compounds recited in claim 7.

SCIENTIFIC REFERENCE BR
Sci & Tech Inf. Ctr

FEB 8 REC'D

Pat. & T.M. Office

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>[Signature]</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>✓</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>2/12/07</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>2/12/07</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>20</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>30</u>	Other _____	Other (specify) _____

=> fil reg

FILE 'REGISTRY' ENTERED AT 13:30:21 ON 12 FEB 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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STRUCTURE FILE UPDATES: 11 FEB 2007 HIGHEST RN 920490-65-9

DICTIONARY FILE UPDATES: 11 FEB 2007 HIGHEST RN 920490-65-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

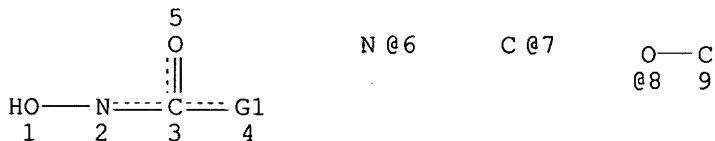
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d sta que l29

L27 STR



VAR G1=6/7/8

NODE ATTRIBUTES:

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NSPEC IS RC AT 7

NSPEC IS RC AT 9

CONNECT IS M1 RC AT 6

CONNECT IS M1 RC AT 7

CONNECT IS M1 RC AT 9

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

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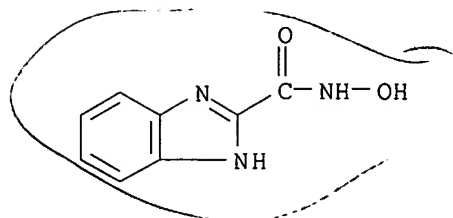
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SEARCH TIME: 00.00.01

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L6 ANSWER 1 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 760197-93-1 REGISTRY
ED Entered STN: 11 Oct 2004
CN 1H-Benzimidazole-2-carboxamide, N-hydroxy- (9CI) (CA INDEX NAME)
MF C8 H7 N3 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

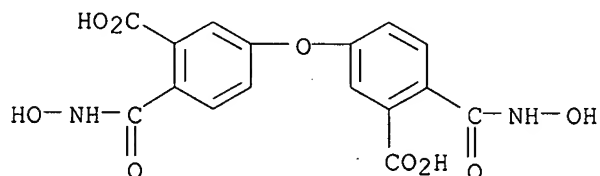


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 2 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 760197-92-0 REGISTRY
ED Entered STN: 11 Oct 2004
CN Benzoic acid, 3,3'-oxybis[6-[(hydroxyamino)carbonyl]- (9CI) (CA INDEX NAME)
MF C16 H12 N2 O9
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

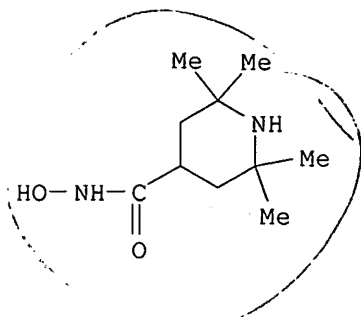


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REFERENCE 1: 141:279193

L6 ANSWER 3 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 760197-91-9 REGISTRY
ED Entered STN: 11 Oct 2004
CN 4-Piperidinecarboxamide, N-hydroxy-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)
MF C10 H20 N2 O2
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LC STN Files: CA, CAPLUS, USPATFULL

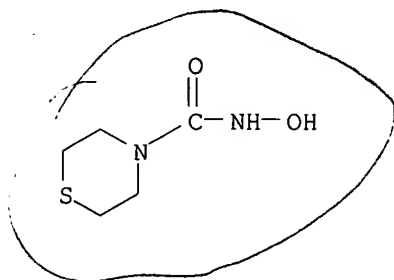


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 4 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 760197-90-8 REGISTRY
ED Entered STN: 11 Oct 2004
CN 4-Thiomorpholinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)
MF C5 H10 N2 O2 S
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LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

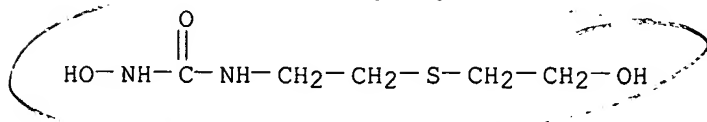


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 5 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 760197-89-5 REGISTRY
ED Entered STN: 11 Oct 2004
CN Urea, N-hydroxy-N'-[2-[(2-hydroxyethyl)thio]ethyl]- (9CI) (CA INDEX NAME)
MF C5 H12 N2 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

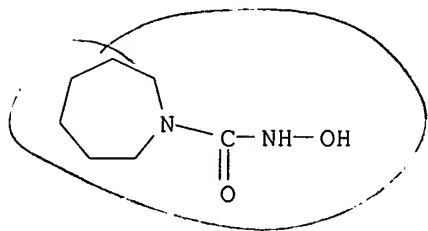


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REFERENCE 1: 141:279193

L6 ANSWER 6 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 760197-88-4 REGISTRY
 ED Entered STN: 11 Oct 2004
 CN 1H-Azepine-1-carboxamide, hexahydro-N-hydroxy- (9CI) (CA INDEX NAME)
 MF C7 H14 N2 O2
 SR CA
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

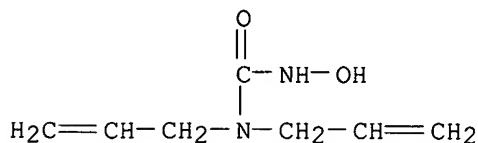


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REFERENCE 1: 141:279193

L6 ANSWER 7 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 760197-87-3 REGISTRY
 ED Entered STN: 11 Oct 2004
 CN Urea, N'-hydroxy-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)
 MF C7 H12 N2 O2
 SR CA
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL



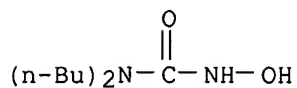
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REFERENCE 1: 141:279193

L6 ANSWER 8 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 760197-86-2 REGISTRY
 ED Entered STN: 11 Oct 2004
 CN Urea, N,N-dibutyl-N'-hydroxy- (9CI) (CA INDEX NAME)
 MF C9 H20 N2 O2

SR CA
LC STN Files: CA, CAPLUS, USPATFULL

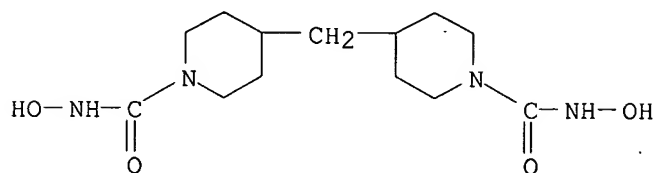


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 9 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN **760197-85-1** REGISTRY
ED Entered STN: 11 Oct 2004
CN 1-Piperidinecarboxamide, 4,4'-methylenebis[N-hydroxy- (9CI) (CA INDEX NAME)
MF C13 H24 N4 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

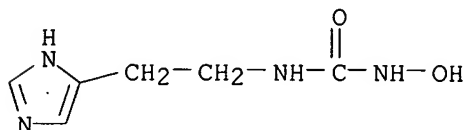


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 10 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN **760197-84-0** REGISTRY
ED Entered STN: 11 Oct 2004
CN Urea, N-hydroxy-N'-[2-(1H-imidazol-4-yl)ethyl]- (9CI) (CA INDEX NAME)
MF C6 H10 N4 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

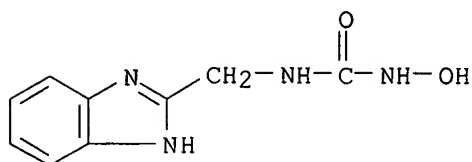


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 11 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN **760197-83-9** REGISTRY
ED Entered STN: 11 Oct 2004
CN Urea, N-(1H-benzimidazol-2-ylmethyl)-N'-hydroxy- (9CI) (CA INDEX NAME)
MF C9 H10 N4 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

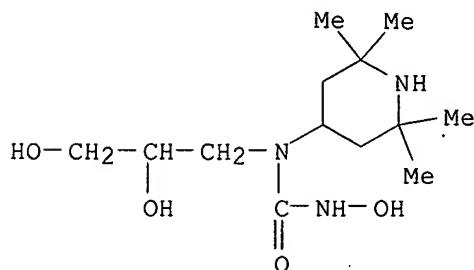


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 12 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN **760197-82-8** REGISTRY
ED Entered STN: 11 Oct 2004
CN Urea, N-(2,3-dihydroxypropyl)-N'-hydroxy-N-(2,2,6,6-tetramethyl-4-piperidiny)- (9CI) (CA INDEX NAME)
MF C13 H27 N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

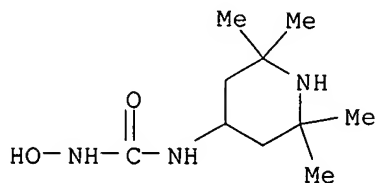


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 13 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 760197-81-7 REGISTRY
 ED Entered STN: 11 Oct 2004
 CN Urea, N-hydroxy-N'-(2,2,6,6-tetramethyl-4-piperidiny)- (9CI) (CA INDEX NAME)
 MF C10 H21 N3 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



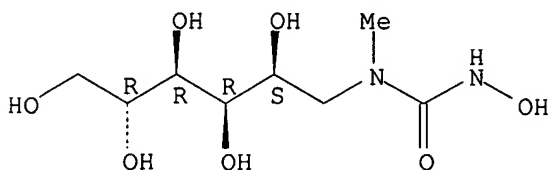
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1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 14 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 760197-80-6 REGISTRY
 ED Entered STN: 11 Oct 2004
 CN D-Glucitol, 1-deoxy-1-[[(hydroxyamino) carbonyl] methylamino]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C8 H18 N2 O7
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



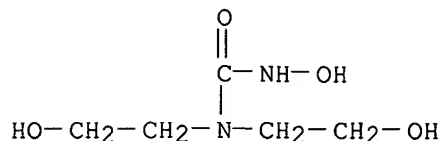
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1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 15 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 760197-79-3 REGISTRY
 ED Entered STN: 11 Oct 2004

CN Urea, N'-hydroxy-N,N-bis(2-hydroxyethyl)- (9CI) (CA INDEX NAME)
 MF C5 H12 N2 O4
 SR CA
 LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL

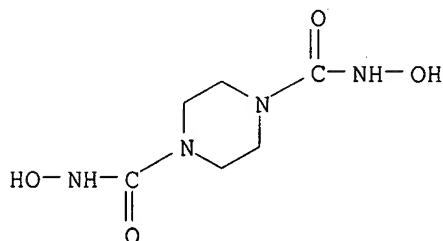


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1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 16 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 760197-78-2 REGISTRY
 ED Entered STN: 11 Oct 2004
 CN 1,4-Piperazinedicarboxamide, N,N'-dihydroxy- (9CI) (CA INDEX NAME)
 MF C6 H12 N4 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

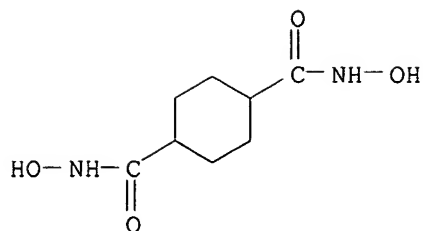


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1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

L6 ANSWER 17 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 500587-12-2 REGISTRY
 ED Entered STN: 25 Mar 2003
 CN 1,4-Cyclohexanedicarboxamide, N,N'-dihydroxy- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN NSC 142111
 MF C8 H14 N2 O4
 SR Chemical Library
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

REFERENCE 2: 38:39143

L6 ANSWER 18 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN

RN 131732-70-2 REGISTRY

ED Entered STN: 01 Feb 1991

CN Pyridinium, 3-[(hydroxyamino)carbonyl]-1-methyl-, salt with
4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Hydroxycarbamoyl-1-methylpyridinium p-toluenesulfonate (6CI)

MF C7 H9 N2 O2 . C7 H7 O3 S

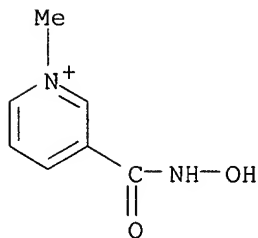
SR CAOLD

LC STN Files: CA, CAOLD, CAPLUS, USPATFULL

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CRN 131732-69-9

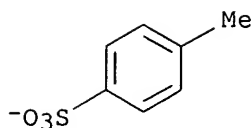
CMF C7 H9 N2 O2



CM 2

CRN 16722-51-3

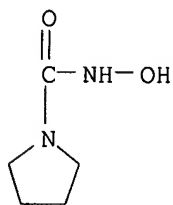
CMF C7 H7 O3 S



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 141:279193

L6 ANSWER 19 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 54711-45-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Pyrrolidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)
MF C5 H10 N2 O2
LC STN Files: CA, CAPLUS, CHEMCATS, IFICDB, IFIPAT, IFIUDB, USPAT2,
USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

REFERENCE 2: 137:312526

REFERENCE 3: 136:327139

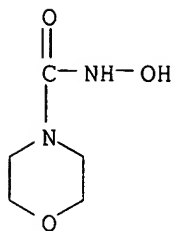
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REFERENCE 5: 103:140309

REFERENCE 6: 94:208166

REFERENCE 7: 82:118201

L6 ANSWER 20 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 54711-44-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 4-Morpholinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)
MF C5 H10 N2 O3
LC STN Files: CA, CAPLUS, CHEMCATS, IFICDB, IFIPAT, IFIUDB, TOXCENTER,
USPATFULL

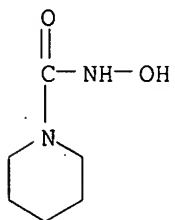


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10 REFERENCES IN FILE CA (1907 TO DATE)
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REFERENCE 2: 140:347561
REFERENCE 3: 125:127578
REFERENCE 4: 106:67498
REFERENCE 5: 103:88076
REFERENCE 6: 102:95819
REFERENCE 7: 97:6524
REFERENCE 8: 95:52628
REFERENCE 9: 94:208166
REFERENCE 10: 82:118201

L6 ANSWER 21 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 54711-43-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Piperidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)
MF C6 H12 N2 O2
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:279193

REFERENCE 2: 112:235193

REFERENCE 3: 95:52628

REFERENCE 4: 94:208166

REFERENCE 5: 90:64523

REFERENCE 6: 82:118201

L6 ANSWER 22 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN

RN 36016-38-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN Carbamic acid, hydroxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Carbamic acid, hydroxy-, tert-butyl ester (6CI)

OTHER NAMES:

CN 1,1-Dimethylethyl N-hydroxycarbamate

CN Hydroxycarbamic acid 1,1-dimethylethyl ester

CN N-(tert-Butoxycarbonyl)hydroxylamine

CN N-(tert-Butyloxycarbonyl)hydroxylamine

CN N-Hydroxycarbamic acid tert-butyl ester

CN N-t-Butyloxycarbonyl hydroxylamine

CN NSC 131086

CN NSC 144620

CN tert-Butoxycarbonylhydroxylamine

CN tert-Butyl hydroxycarbamate

CN tert-Butyl N-hydroxycarbamate

MF C5 H11 N O3

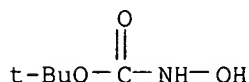
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LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

161 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

161 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

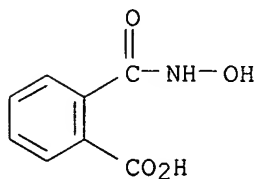
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REFERENCE 6: 145:272024
REFERENCE 7: 145:249515
REFERENCE 8: 145:217853
REFERENCE 9: 145:189378
REFERENCE 10: 145:145278

L6 ANSWER 23 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 17698-09-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzoic acid, 2-[(hydroxyamino)carbonyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phthalamic acid, N-hydroxy- (6CI, 8CI)
OTHER NAMES:
CN 2-Carboxybenzohydroxamic acid
CN NSC 524748
CN o-Carboxybenzhydroxamic acid
CN o-Carboxybenzohydroxamic acid
CN Phthalmonohydroxamic acid
CN Phthalomonohydroxamic acid
DR 27873-87-6
MF C8 H7 N O4
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
23 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 146:67987
REFERENCE 2: 144:61096
REFERENCE 3: 141:279193
REFERENCE 4: 139:330354
REFERENCE 5: 135:21201

REFERENCE 6: 133:240858

REFERENCE 7: 132:189641

REFERENCE 8: 129:4340

REFERENCE 9: 126:171179

REFERENCE 10: 105:107511

L6 ANSWER 24 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN

RN 4726-83-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Hexanediamide, N,N'-dihydroxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Adipohydroxamic acid (7CI, 8CI)

OTHER NAMES:

CN Adipodihydroxamic acid

CN Adipohydroxamic acid

CN Adipylbis(hydroxamic acid)

CN NSC 191290

CN NSC 191291

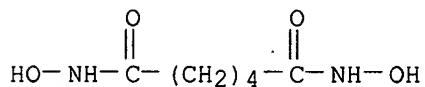
DR 1883-02-9

MF C6 H12 N2 O4

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, IFICDB, IFIPAT,
IFIUDB, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

35 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

35 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 141:279193

REFERENCE 2: 141:265829

REFERENCE 3: 139:386485

REFERENCE 4: 139:338580

REFERENCE 5: 138:65577

REFERENCE 6: 133:296086

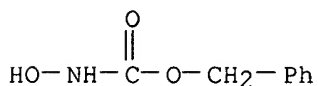
REFERENCE 7: 133:105164

REFERENCE 8: 133:105160

REFERENCE 9: 132:171035

REFERENCE 10: 130:104223

L6 ANSWER 25 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 3426-71-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN Carbamic acid, hydroxy-, phenylmethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Carbamic acid, hydroxy-, benzyl ester (6CI, 7CI, 8CI)
OTHER NAMES:
CN Benzyl N-hydroxycarbamate
CN N-Benzylloxycarbonylhydroxylamine
CN N-Hydroxycarbamic acid benzyl ester
CN NSC 528506
MF C8 H9 N O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CSCHEM, IFICDB, IFIPAT, IFIUDB, RTECS*, SPECINFO,
TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

99 REFERENCES IN FILE CA (1907 TO DATE)
99 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 145:314595

REFERENCE 2: 144:192400

REFERENCE 3: 144:51558

REFERENCE 4: 143:405542

REFERENCE 5: 143:286362

REFERENCE 6: 142:392329

REFERENCE 7: 142:354930

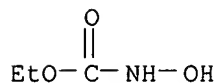
REFERENCE 8: 142:336573

REFERENCE 9: 141:279193

REFERENCE 10: 140:423276

L6 ANSWER 26 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 589-41-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Carbamic acid, hydroxy-, ethyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:

CN Ethyl N-hydroxycarbamate
CN Hydroxycarbamic acid ethyl ester
CN Hydroxyurethane
CN N-Carbethoxyhydroxylamine
CN N-Hydroxyurethane
CN NSC-71045
CN NSC-83629
CN SQ 16819
MF C3 H7 N O3
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, EMBASE, GMELIN*, IFICDB,
IFIPAT, IFIUDB, MEDLINE, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

203 REFERENCES IN FILE CA (1907 TO DATE)
203 REFERENCES IN FILE CAPLUS (1907 TO DATE)
29 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 146:61237
REFERENCE 2: 145:455147
REFERENCE 3: 144:432747
REFERENCE 4: 141:279193
REFERENCE 5: 140:357329
REFERENCE 6: 140:59409
REFERENCE 7: 139:350750
REFERENCE 8: 139:261281
REFERENCE 9: 139:52895
REFERENCE 10: 138:100349

=> fil hcaplus
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FILE LAST UPDATED: 11 Feb 2007 (20070211/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitind hitstr retable tot 165

L65 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:772671 HCAPLUS

DN 141:279193

TI Stabilizers for ink-jet inks and recording materials

IN Loccufier, Johan; Lingier, Stefaan

PA Agfa-Gevaert, Belg.

SO Eur. Pat. Appl., 39 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1460114	A1	20040922	EP 2004-100925	20040308 <--
	EP 1460114	B1	20060823		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
	US 2004191432	A1	20040930	US 2004-801356	20040316 <--
	JP 2004338380	A	20041202	JP 2004-76822	20040317 <--
PRAI	EP 2003-100676	A	20030318	<--	
	US 2003-461120P	P	20030408	<--	
OS	MARPAT 141:279193				
AB	An ink-jet recording material and an ink-jet ink is disclosed containing a compound R1CONHOH, where R1 is hydrocarbyl, hydrocarbylamino, hydrocarbylcarbonyl, etc. The ink-jet image exhibits an improved stability against light fading and gas fading.				
IC	ICM C09D0011-00				
	ICS B41M0005-00; C07C0259-00; C07C0271-00; C07C0275-00				
CC	42-12 (Coatings, Inks, and Related Products)				
	Section cross-reference(s): 23, 74				
ST	stabilizer ink jet recording material				
IT	Inks				
	Light stabilizers				
	(jet-printing; stabilizers for ink-jet inks and recording materials)				
IT	Ink-jet recording sheets				
	(stabilizers for ink-jet inks and recording materials)				
IT	1885-14-9, Phenyl chloroformate 5470-11-1, Hydroxylamine chlorohydrate 15159-40-7, N-Chlorocarbonylmorpholine				

RL: RCT (Reactant); RACT (Reactant or reagent)
(for stabilizers for **ink-jet inks**)

IT 3329-30-4, N-Methyl-D-glucosamine 36768-62-4, Triacetonediamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with hydrocarbylphenyl carbamate; for stabilizers for **ink-jet inks**)

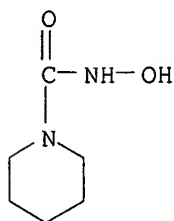
IT 54711-43-2
RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(stabilizers for **ink-jet inks** and **recording materials**)

IT 54711-44-3P 760197-80-6P 760197-81-7P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(stabilizers for **ink-jet inks** and **recording materials**)

IT 589-41-3 3426-71-9 4726-83-4
17698-09-8 36016-38-3 54711-45-4
131732-70-2 500587-12-2 760197-78-2
760197-79-3 760197-82-8 760197-83-9
760197-84-0 760197-85-1 760197-86-2
760197-87-3 760197-88-4 760197-89-5
760197-90-8 760197-91-9 760197-92-0
760197-93-1
RL: TEM (Technical or engineered material use); USES (Uses)
(stabilizers for **ink-jet inks** and **recording materials**)

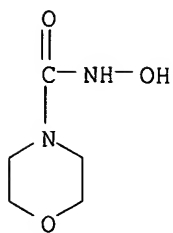
IT 54711-43-2
RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(stabilizers for **ink-jet inks** and **recording materials**)

RN 54711-43-2 HCAPLUS
CN 1-Piperidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



IT 54711-44-3P 760197-80-6P 760197-81-7P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(stabilizers for **ink-jet inks** and **recording materials**)

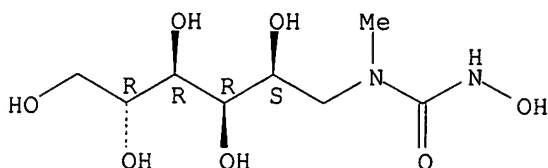
RN 54711-44-3 HCAPLUS
CN 4-Morpholinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



RN 760197-80-6 HCAPLUS

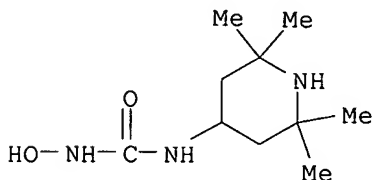
CN D-Glucitol, 1-deoxy-1-[[(hydroxyamino)carbonyl]methylamino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 760197-81-7 HCAPLUS

CN Urea, N-hydroxy-N'-(2,2,6,6-tetramethyl-4-piperidiny)- (9CI) (CA INDEX NAME)



IT 589-41-3 3426-71-9 4726-83-4

17698-09-8 36016-38-3 54711-45-4

131732-70-2 500587-12-2 760197-78-2

760197-79-3 760197-82-8 760197-83-9

760197-84-0 760197-85-1 760197-86-2

760197-87-3 760197-88-4 760197-89-5

760197-90-8 760197-91-9 760197-92-0

760197-93-1

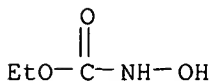
RL: TEM (Technical or engineered material use); USES (Uses)

(stabilizers for ink-jet inks and

recording materials)

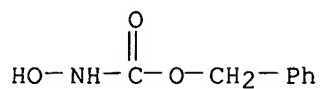
RN 589-41-3 HCAPLUS

CN Carbamic acid, hydroxy-, ethyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)



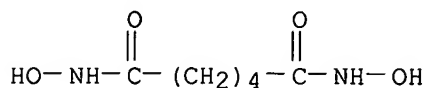
RN 3426-71-9 HCAPLUS

CN Carbamic acid, hydroxy-, phenylmethyl ester (9CI) (CA INDEX NAME)



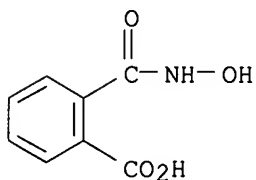
RN 4726-83-4 HCAPLUS

CN Hexanediamide, N,N'-dihydroxy- (9CI) (CA INDEX NAME)



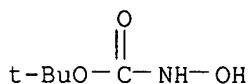
RN 17698-09-8 HCAPLUS

CN Benzoic acid, 2-[(hydroxyamino)carbonyl]- (9CI) (CA INDEX NAME)



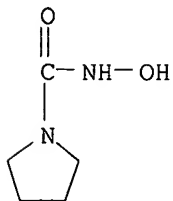
RN 36016-38-3 HCAPLUS

CN Carbamic acid, hydroxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 54711-45-4 HCAPLUS

CN 1-Pyrrolidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



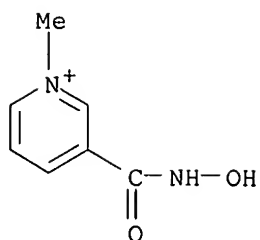
RN 131732-70-2 HCAPLUS

CN Pyridinium, 3-[(hydroxyamino)carbonyl]-1-methyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 131732-69-9

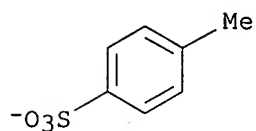
CMF C7 H9 N2 O2



CM 2

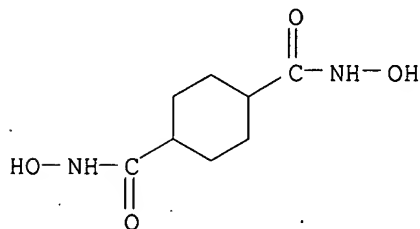
CRN 16722-51-3

CMF C7 H7 O3 S



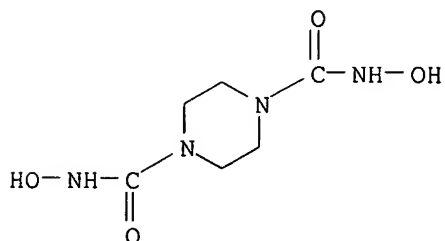
RN 500587-12-2 HCAPLUS

CN 1,4-Cyclohexanedicarboxamide, N,N'-dihydroxy- (9CI) (CA INDEX NAME)



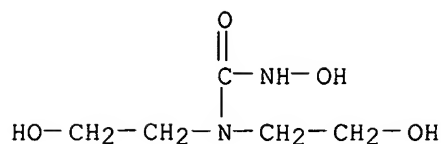
RN 760197-78-2 HCAPLUS

CN 1,4-Piperazinedicarboxamide, N,N'-dihydroxy- (9CI) (CA INDEX NAME)



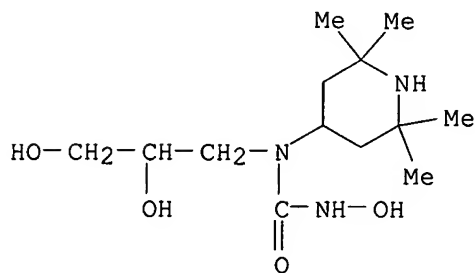
RN 760197-79-3 HCAPLUS

CN Urea, N'-hydroxy-N,N-bis(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



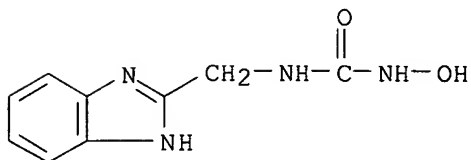
RN 760197-82-8 HCAPLUS

CN Urea, N-(2,3-dihydroxypropyl)-N'-hydroxy-N-(2,2,6,6-tetramethyl-4-piperidiny)- (9CI) (CA INDEX NAME)



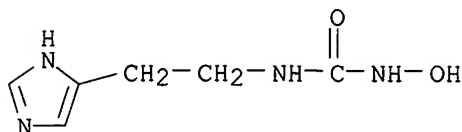
RN 760197-83-9 HCAPLUS

CN Urea, N-(1H-benzimidazol-2-ylmethyl)-N'-hydroxy- (9CI) (CA INDEX NAME)



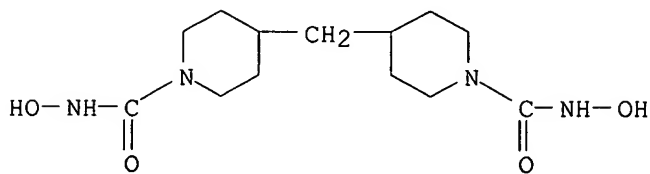
RN 760197-84-0 HCAPLUS

CN Urea, N-hydroxy-N'-[2-(1H-imidazol-4-yl)ethyl]- (9CI) (CA INDEX NAME)



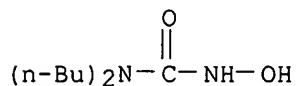
RN 760197-85-1 HCAPLUS

CN 1-Piperidinecarboxamide, 4,4'-methylenebis[N-hydroxy- (9CI) (CA INDEX NAME)]



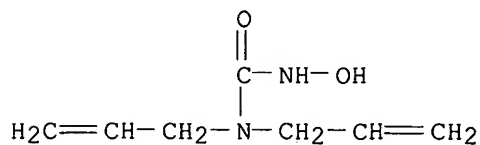
RN 760197-86-2 HCAPLUS

CN Urea, N,N-dibutyl-N'-hydroxy- (9CI) (CA INDEX NAME)



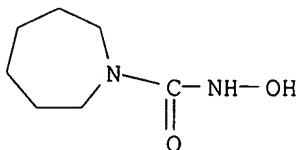
RN 760197-87-3 HCAPLUS

CN Urea, N'-hydroxy-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)



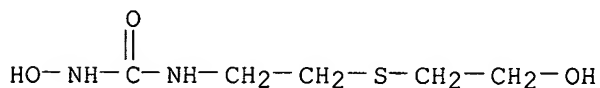
RN 760197-88-4 HCAPLUS

CN 1H-Azepine-1-carboxamide, hexahydro-N-hydroxy- (9CI) (CA INDEX NAME)



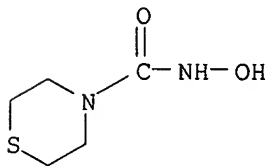
RN 760197-89-5 HCAPLUS

CN Urea, N-hydroxy-N'-[2-[(2-hydroxyethyl)thio]ethyl]- (9CI) (CA INDEX NAME)



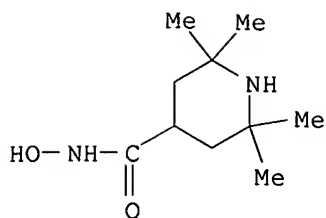
RN 760197-90-8 HCAPLUS

CN 4-Thiomorpholinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



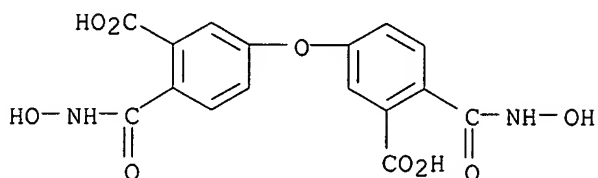
RN 760197-91-9 HCAPLUS

CN 4-Piperidinecarboxamide, N-hydroxy-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



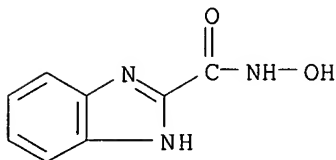
RN 760197-92-0 HCAPLUS

CN Benzoic acid, 3,3'-oxybis[6-[(hydroxyamino)carbonyl]- (9CI) (CA INDEX NAME)



RN 760197-93-1 HCAPLUS

CN 1H-Benzimidazole-2-carboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 2 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:720091 HCAPLUS

DN 141:233246

TI Ink-jet printing sheet containing
hydrazine compound

IN Sakaguchi, Hiroshi; Morikawa, Takayuki; Sumioka, Koichi; Haino, Kozo

PA Mitsubishi Paper Mills, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 34 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

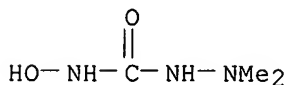
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004243739	A	20040902	JP 2003-38633	20030217 <--
PRAI	JP 2003-38633		20030217	<--	
OS	MARPAT 141:233246				

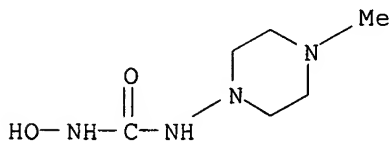
AB The sheet has a porous ink receiving layer containing (A) wet silica pulverized to become average secondary particle size ≤ 400 nm in aqueous medium, and (B) a hydrazine derivative bearing ≥ 1 acidic, thio ether, or quaternary ammonium salt group as substituent. The ink receiving layer contains (A) and (B') a hydrazine compound R13ONR14(CONR15NR16)nR17 (R13-15 = H, aliphatic, aromatic; R16-17 = H, aliphatic,

aromatic, heterocycle; n = 1, 2). The **sheet** shows good **ink** absorption and gives photo-like images with high gloss and storage stability.

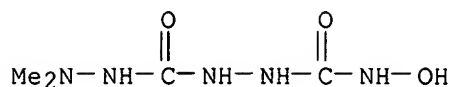
IC ICM B41M0005-00
ICS B41J0002-01
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST **ink jet printing sheet** hydrazine;
silica fine particle **ink jet printing sheet**
IT **Ink-jet recording sheets**
(**ink-jet printing sheet** containing silica and hydrazine compound)
IT 7631-86-9, Nipsil VN 3, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(colloidal; **ink-jet printing sheet** containing silica and hydrazine compound)
IT 1596-84-5 209545-30-2 474787-20-7 474787-22-9
474787-23-0 569353-20-4 569353-31-7 569353-32-8 569353-34-0
569353-36-2 569353-41-9 591753-80-9 618910-72-8 618910-73-9
618910-74-0 618910-76-2 618910-78-4 628317-12-4 628317-14-6
628317-15-7 648435-01-2 648435-02-3 648435-07-8
745055-21-4 745055-32-7 745066-90-4 745066-91-5 745066-92-6
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(**ink-jet printing sheet** containing silica and hydrazine compound)
IT 209545-30-2 474787-20-7 648435-01-2 648435-02-3
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(**ink-jet printing sheet** containing silica and hydrazine compound)
RN 209545-30-2 HCAPLUS
CN Hydrazinecarboxamide, N-hydroxy-2,2-dimethyl- (9CI) (CA INDEX NAME)



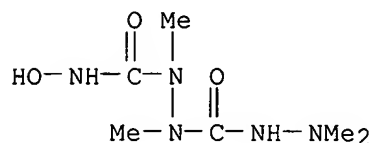
RN 474787-20-7 HCAPLUS
CN Urea, N-hydroxy-N'-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 648435-01-2 HCAPLUS
CN Carbonic dihydrazide, 2'-[(hydroxyamino)carbonyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



RN 648435-02-3 HCAPLUS
 CN Carbonic dihydrazide, 2-[(hydroxyamino)carbonyl]-1,2,2',2'-tetramethyl-
 (9CI) (CA INDEX NAME)



L65 ANSWER 3 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:386593 HCAPLUS

DN 140:392028

TI **Ink-jet recording sheet**

IN Taka, Yukako; Tsubaki, Yoshinori

PA Konica Minolta Holdings Inc., Japan

SO Eur. Pat. Appl., 37 pp.

CODEN: EPXXDW

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1418058	A2	20040512	EP 2003-256990	20031105 <--
	EP 1418058	A3	20060315		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004091646	A1	20040513	US 2003-699343	20031030 <--
	JP 2004168049	A	20040617	JP 2003-373919	20031104 <--
	US 2006233977	A1	20061019	US 2006-451827	20060613 <--
PRAI	JP 2002-324623	A	20021108	<--	
	US 2003-699343	A3	20031030		

OS MARPAT 140:392028

AB An **ink-jet recording sheet** is

disclosed. The ink accepting porous layer comprises a hydrophilic binder containing a polymer compound crosslinked via irradiation of ionizing radiation, micro particles, and at least one component selected from the group consisting of (A) a nitrogen-containing compound, (B) a sulfur-containing compound, (C) a phenol compound and (D) a polyvalent metal salt.

IC ICM B41M0005-00

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 74

ST **ink jet recording sheet**

hydrophilic binder

IT **Ink-jet recording sheets**

(**ink-jet recording sheet**)

IT 7631-86-9, Aerosil 300, uses

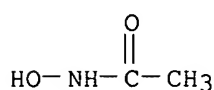
RL: TEM (Technical or engineered material use); USES (Uses)
 (colloidal; **ink-jet recording sheet**)

IT 110507-15-8, PAA-HCL-10L 177646-18-3, PVA 235 659747-40-7, SPP-SHR
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (ink-jet recording sheet)

IT 102-71-6, Triethanol amine, uses 546-88-3 5153-24-2, Zircosol
 ZA 5244-34-8 80234-03-3 226894-73-1, ADKstab LX-332 685888-20-4
 686335-90-0, ADK Stab LX 802
 RL: TEM (Technical or engineered material use); USES (Uses)
 (ink-jet recording sheet)

IT 546-88-3
 RL: TEM (Technical or engineered material use); USES (Uses)
 (ink-jet recording sheet)

RN 546-88-3 HCAPLUS
 CN Acetamide, N-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 4 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:73694 HCAPLUS

DN 140:119904

TI Ink-jet recording material and ink
 -jet ink with improved storage stability

IN Haino, Kozo

PA Mitsubishi Paper Mills, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004025634	A	20040129	JP 2002-185646	20020626 <--
PRAI	JP 2002-185646		20020626	<--	

OS MARPAT 140:119904

AB Title recording material and ink are characterized by
 containing hydrazine derivative R7ON(R6)C(O)N(R5)N(R4)C(O)B(R3)N(R1)(R2) (R1,

R2 = H, alkyl, alkenyl, aryl, heterocycle, acyl; R3-7 = H, alkyl, alkenyl, aryl).

IC ICM B41M0005-00

ICS B41J0002-01; C09D0011-00; C07C0281-06

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 42

ST ink jet recording material storage stability
 improvement hydrazine deriv

IT Ink-jet recording sheets
 (ink-jet recording material and
 ink-jet ink with improved storage
 stability)

IT Inks
 (jet-printing; ink-jet
 recording material and ink-jet ink
 with improved storage stability)

IT 648435-01-2 648435-02-3 648435-03-4

648435-04-5 648435-05-6 648435-06-7 648435-07-8

RL: MOA (Modifier or additive use); USES (Uses)

(ink-jet recording material and

ink containing hydrazine derivs. for improved storage stability)

IT 648435-01-2 648435-02-3 648435-03-4

648435-04-5 648435-06-7

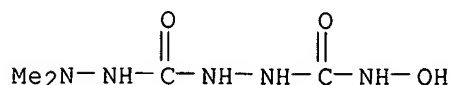
RL: MOA (Modifier or additive use); USES (Uses)

(ink-jet recording material and

ink containing hydrazine derivs. for improved storage stability)

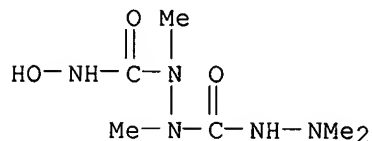
RN 648435-01-2 HCAPLUS

CN Carbonic dihydrazide, 2'-[(hydroxyamino)carbonyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



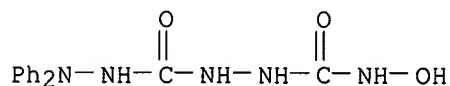
RN 648435-02-3 HCAPLUS

CN Carbonic dihydrazide, 2-[(hydroxyamino)carbonyl]-1,2,2',2'-tetramethyl- (9CI) (CA INDEX NAME)



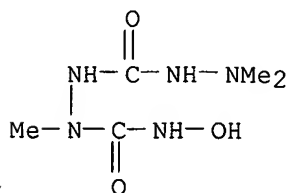
RN 648435-03-4 HCAPLUS

CN Carbonic dihydrazide, 2'-[(hydroxyamino)carbonyl]-2,2-diphenyl- (9CI) (CA INDEX NAME)



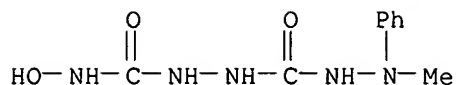
RN 648435-04-5 HCAPLUS

CN Carbonic dihydrazide, 2-[(hydroxyamino)carbonyl]-2,2',2'-trimethyl- (9CI) (CA INDEX NAME)



RN 648435-06-7 HCAPLUS

CN Carbonic dihydrazide, 2'-[(hydroxyamino)carbonyl]-2-methyl-2-phenyl- (9CI) (CA INDEX NAME)



L65 ANSWER 5 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:823193 HCAPLUS

DN 139:330354

TI **Ink jet recording sheet** containing hydroxamic acids

IN Takashima, Masanobu

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

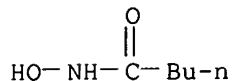
DT **Patent**

LA Japanese

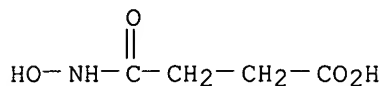
FAN.CNT 1

	PATENT NO.	<i>kind date</i> KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003300378	A	20031021	JP 2002-107778	20020410 <--
PRAI	JP 2002-107778		20020410	<--	
OS	MARPAT 139:330354				
AB	The sheet has an ink receiving layer containing hydroxamic acids. It shows high ink absorbency, providing images with improved water resistance, anti-feathering, gloss, and ozone resistance.				
IC	ICM B41M0005-00				
	ICS B41J0002-01				
CC	74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)				
ST	ink jet printing sheet hydroxamic acid; mordant ink jet printing sheet				
IT	Ink-jet recording sheets (ink jet recording sheet containing hydroxamic acid)				
IT	Gelatins, uses RL: TEM (Technical or engineered material use); USES (Uses) (ink jet recording sheet containing hydroxamic acid)				
IT	Mordants (ink jet recording sheet containing hydroxamic acid and mordant)				
IT	24623-77-6, Aluminum hydroxide oxide (Al(OH)O) RL: TEM (Technical or engineered material use); USES (Uses) (boehmite-type; ink jet recording sheet containing hydroxamic acid)				
IT	4312-92-9 4743-99-1 5657-61-4 17698-09-8 612848-96-1 612848-97-2 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (ink jet recording sheet containing hydroxamic acid)				
IT	1344-28-1, Alumina, uses 5153-24-2, Zirconyl acetate 7631-86-9, QS 30, uses 9004-34-6D, Cellulose, derivs 12042-91-0, PAC 1000 142517-79-1, Boric acid-vinyl alcohol copolymer RL: TEM (Technical or engineered material use); USES (Uses) (ink jet recording sheet containing hydroxamic acid)				
IT	30551-89-4, PAA 10C RL: TEM (Technical or engineered material use); USES (Uses)				

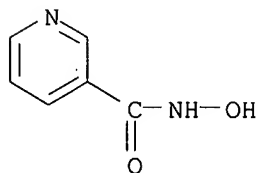
(mordant; ink jet recording sheet
containing hydroxamic acid)
IT 4312-92-9 4743-99-1 5657-61-4
17698-09-8 612848-97-2
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(ink jet recording sheet containing
hydroxamic acid)
RN 4312-92-9 HCAPLUS
CN Pentanamide, N-hydroxy- (9CI) (CA INDEX NAME)



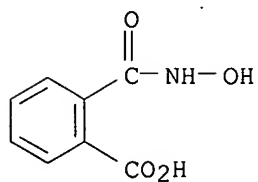
RN 4743-99-1 HCAPLUS
CN Butanoic acid, 4-(hydroxyamino)-4-oxo- (9CI) (CA INDEX NAME)



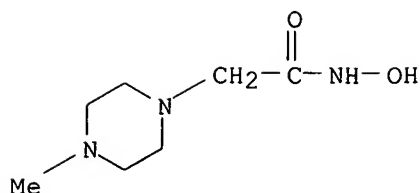
RN 5657-61-4 HCAPLUS
CN 3-Pyridinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



RN 17698-09-8 HCAPLUS
CN Benzoic acid, 2-[(hydroxyamino)carbonyl]- (9CI) (CA INDEX NAME)



RN 612848-97-2 HCAPLUS
CN 1-Piperazineacetamide, N-hydroxy-4-methyl- (9CI) (CA INDEX NAME)



L65 ANSWER 6 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:784477 HCAPLUS

DN 139:299221

TI **Ink-jet printing sheet** containing fluorescent brightener and hydrazine, sulfur, or saccharide

IN Ishiguro, Hideaki; Sunada, Kazuhiko

PA Mitsubishi Paper Mills, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT **Patent**

LA Japanese

FAN.CNT 1

	PATENT NO.	<i>not date</i> KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003285535	A	20031007	JP 2002-88869	20020327 <--
PRAI	JP 2002-88869		20020327	<--	

AB The **sheet**, comprising a water-resistant support coated with ≥ 1 **ink** receiving layer containing inorg. fine particles and a hydrophilic binder, contains fluorescent brightener and ≥ 1 from hydrazine derivative, an organic compound containing S, and a saccharide. The **sheet**, comprising a water-resistant support coated with ≥ 2 **ink** receiving layers containing inorg. fine particles and a binder, the undermost **ink** receiving layer contains ≥ 1 fluorescent brightener, and the uppermost layer contains a cationic compound. In the **sheet**, the undermost **ink** receiving layer contains ≥ 1 fluorescent brightener, and the uppermost layer contains alumina and/or alumina hydrate as inorg. particles. The **sheet** shows high brightness, whiteness, **ink** absorption and weatherability.

IC ICM B41M0005-00

ICS B41J0002-01

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **ink jet printing sheet** hydrazine sulfur saccharide; inorg particle water soluble binder **printing sheet**; fluorescent brightener **ink jet printing sheet**

IT Fluorescent brighteners

Ink-jet recording sheets

(**ink-jet printing sheet** containing fluorescent brightener, hydrazine, sulfur, or saccharide)

IT Aminoplasts

RL: TEM (Technical or engineered material use); USES (Uses)

(**ink-jet printing sheet** containing fluorescent brightener, hydrazine, sulfur, or saccharide)

IT 50-99-7, D-Glucose, uses 57-14-7, N,N-Dimethylhydrazine 5244-34-8
21645-51-2, Alumina hydrate, uses 23003-22-7, 3-Hydroxy-2-mercaptopyridine 69938-76-7 95078-19-6, Uvitex BAC 105658-32-0
209545-30-2 220650-53-3, **Jetfix** 30 502498-19-3
609354-97-4, Uvitex BFA

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(ink-jet printing sheet containing
fluorescent brightener, hydrazine, sulfur, or saccharide)

IT 1327-41-9, Purachem WT 7631-86-9, Silica, uses 9003-08-1, Sumirez
Resin 613 26062-79-3, Shallol DC 902P 496064-50-7, Boric acid-Poval
PVA 235 copolymer

RL: TEM (Technical or engineered material use); USES (Uses)

(ink-jet printing sheet containing
fluorescent brightener, hydrazine, sulfur, or saccharide)

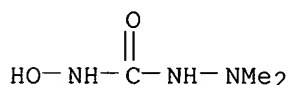
IT 209545-30-2

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(ink-jet printing sheet containing
fluorescent brightener, hydrazine, sulfur, or saccharide)

RN 209545-30-2 HCAPLUS

CN Hydrazinecarboxamide, N-hydroxy-2,2-dimethyl- (9CI) (CA INDEX NAME)



L65 ANSWER 7 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:596442 HCAPLUS

DN 139:141010

TI Ink-jet printing sheet containing
hydrazine and organic acid zinc salt

IN Sumioka, Koichi

PA Mitsubishi Paper Mills, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT. Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003220759	A	20030805	JP 2002-21993	20020130 <--
PRAI	JP 2002-21993		20020130	<--	

AB The **sheet** comprises a support coated with ≥ 1 **ink**
receiving layer containing a hydrazine derivative and an organic acid Zn salt.

The

sheet shows good **ink** absorption and give photo-like
images.

IC ICM B41M0005-00

ICS B41J0002-01

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other
Réprographic Processes)

ST ink jet printing sheet hydrazine;
org acid zinc salt ink jet printing
sheet

IT Ink-jet recording sheets

(ink-jet printing sheet containing
hydrazine and organic acid zinc salt)

IT 24623-77-6, Aluminum hydroxide oxide (Al(OH)O)

RL: TEM (Technical or engineered material use); USES (Uses)

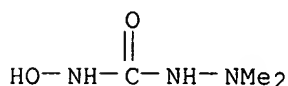
(boehmite-type; ink-jet printing
sheet containing hydrazine and organic acid zinc salt)

IT 127-82-2, Zinc phenolsulfonate 18197-53-0 61614-47-9, Zinc
p-hydroxybenzoate 69938-76-7 105658-32-0 117137-23-2
209545-30-2 502498-19-3
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(ink-jet printing sheet containing
hydrazine and organic acid zinc salt)

IT 1327-41-9, Purachem WT 7631-86-9, Silica, uses 26062-79-3, Shallol DC
902P 142517-79-1, Boric acid-vinyl alcohol copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(ink-jet printing sheet containing
hydrazine and organic acid zinc salt)

IT 209545-30-2
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(ink-jet printing sheet containing
hydrazine and organic acid zinc salt)

RN 209545-30-2 HCAPLUS
CN Hydrazinecarboxamide, N-hydroxy-2,2-dimethyl- (9CI) (CA INDEX NAME)



L65 ANSWER 8 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:525086 HCAPLUS

DN 139:76397

TI Ink-jet printing sheet containing
hydrazine compound and its manufacture

IN Miyaji, Nobumasa; Suzuki, Sachihiro; Tokunaga, Yukio

PA Mitsubishi Paper Mills, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003191633	A	20030709	JP 2001-399207	20011228 <--
PRAI	JP 2001-399207		20011228	<--	

AB The **sheet**, comprising a water-resistant support coated with
≥1 ink receiving layer, contains (A) inorg fine
particles, (B) a boron compound, (C) hydrazine derivative, (D) methylamino
compound, and (E) poly(vinyl alc.). The manufacture of the **sheet** is
characterized by that (1) the ink receiving layer is coated on
the support and dried at surface temperature ≥50°, (2) the coating
solution has pH 3-5.5, or (3) the coating solution is formed by in-line adding

D to a solution containing A, B, C, and E and mixing just before coating. The
sheet shows good ink absorption, and high gloss
photo-like image with good anti-cracking property is obtained.

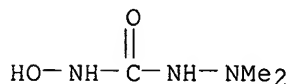
IC ICM B41M0005-00

ICS B05D0005-04; B41J0002-01

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reprographic Processes)

ST ink je printing sheet inorg particle;
hydrazine methylolamine boron compd printing sheet;

- polyvinyl alc ink jet printing sheet
- IT **Ink-jet recording sheets**
(**ink-jet printing sheet** containing inorg. particles, boron compound, hydrazine, methylolamine, and poly(vinyl alc.))
- IT Aminoplasts
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(**ink-jet printing sheet** containing inorg. particles, boron compound, hydrazine, methylolamine, and poly(vinyl alc.))
- IT 7631-86-9, Silica, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(H 121; **ink-jet printing sheet** containing inorg. particles, boron compound, hydrazine, methylolamine, and poly(vinyl alc.))
- IT 24623-77-6, Aluminum hydroxide oxide (Al(OH)O)
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(boehmite-type; **ink-jet printing sheet** containing inorg. particles, boron compound, hydrazine, methylolamine, and poly(vinyl alc.))
- IT 9003-08-1, Sumirez Resin 613 10270-01-6 13746-89-9, Zirconium nitrate 69938-76-7 99550-92-2, Sumirez 636 105658-32-0 **209545-30-2** 502498-19-3
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(**ink-jet printing sheet** containing inorg. particles, boron compound, hydrazine, methylolamine, and poly(vinyl alc.))
- IT 1327-41-9, PuraChem WT 9002-89-5, Poly(vinyl alcohol) 10043-35-3, Boric acid, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**ink-jet printing sheet** containing inorg. particles, boron compound, hydrazine, methylolamine, and poly(vinyl alc.))
- IT **209545-30-2**
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(**ink-jet printing sheet** containing inorg. particles, boron compound, hydrazine, methylolamine, and poly(vinyl alc.))
- RN 209545-30-2 HCAPLUS
- CN Hydrazinecarboxamide, N-hydroxy-2,2-dimethyl- (9CI) (CA INDEX NAME)

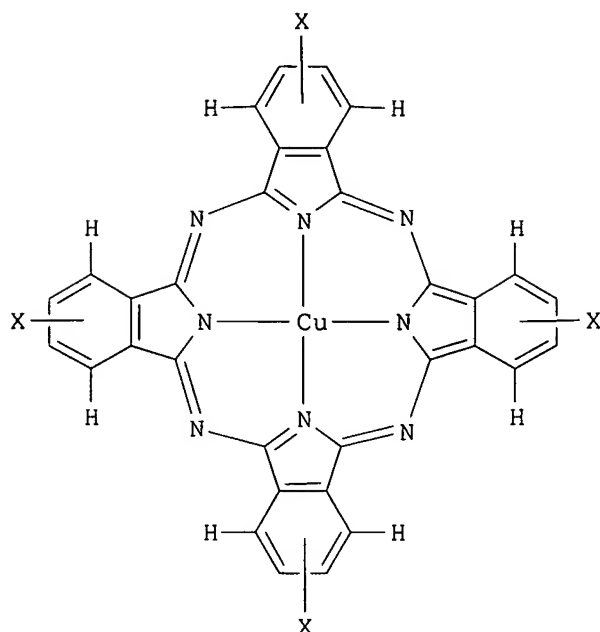


L65 ANSWER 9 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:481833 HCAPLUS
DN 139:54374
TI Water-thinned **jet-printing ink** compositions
for images and **jet-printing process**
IN Omatsu, Tadashi; Noro, Masaki; Tateishi, Keiichi
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 50 pp.

CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

back side

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003176429	A	20030624	JP 2002-33982	20020212 <--
PRAI	JP 2001-310103	A	20011005	<--	
OS	MARPAT 139:54374				
GI					



I

AB The compns. contain phthalocyanine dyes having oxidation voltage of >1.0 V (vs SCE) dissolved and dispersed in water and NR101R102R103 (R101, R102 = H, aliphatic group, aromatic group, heterocyclic group, etc.; R103 = aliphatic group, aromatic group, heterocyclic group, etc.) as discoloration prevention agents. Thus, an image **printed** on a **printing** paper with an **ink** set comprising a **light magenta ink** composition, a magenta **ink** composition, a **light cyan ink** composition containing I (X = SO₂(CH₂)₃SO₃Na) (oxidation voltage 1.16 V) and [(NaO₃SH₂CH₂C)MeN]₂ (II), a cyan **ink** composition containing I and II, a yellow **ink** composition, and a black **ink** composition showed good fastness to **light**, ozone, and heat.

IC ICM C09D0011-00
 ICS B41J0002-01; B41M0005-00; C09B0047-24
 CC 42-12 (Coatings, Inks, and Related Products)
 ST phthalocyanine dye **ink** hydrazine discoloration prevention;
jet printing ink copper phthalocyanine
 hydrazine; lightfastness phthalocyanine **jet printing**
ink; ozone resistance phthalocyanine **jet**
printing ink; heat resistance phthalocyanine **jet**
printing ink

IT Discoloration prevention agents
(hydrazines and N-O bond-containing primary and secondary amines;
water-thinned **jet-printing ink** compns.
for images with good **light**, heat, and ozone resistance)

IT **Light-resistant materials**
(**inks**; water-thinned **jet-printing ink** compns. for images with good **light**, heat, and
ozone resistance)

IT **Inks**
(**jet-printing**, water-thinned; water-thinned
jet-printing ink compns. for images with
good **light**, heat, and ozone resistance)

IT **Inks**
(**light-resistant**; water-thinned **jet-printing ink** compns. for images with good
light, heat, and ozone resistance)

IT Amines, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(primary, N-O bond-containing, discoloration prevention agents;
water-thinned **jet-printing ink** compns.
for images with good **light**, heat, and ozone resistance)

IT Amines, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(secondary, N-O bond-containing, discoloration prevention agents;
water-thinned **jet-printing ink** compns.
for images with good **light**, heat, and ozone resistance)

IT **Ink-jet printing**
(water-thinned **jet-printing ink** compns.
for images with good **light**, heat, and ozone resistance)

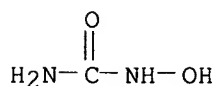
IT **127-07-1 302-01-2, Hydrazine, uses 35046-92-5**
145022-35-1 362599-89-1 414894-91-0 414895-10-6 414895-14-0
414895-29-7
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(discoloration prevention agents; water-thinned **jet-printing ink** compns. for images with good
light, heat, and ozone resistance)

IT 444996-81-0 444996-86-5 444996-88-7 473456-18-7 473456-19-8
546125-38-6
RL: TEM (Technical or engineered material use); USES (Uses)
(water-thinned **jet-printing ink** compns.
for images with good **light**, heat, and ozone resistance)

IT **127-07-1 35046-92-5**
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(discoloration prevention agents; water-thinned **jet-printing ink** compns. for images with good
light, heat, and ozone resistance)

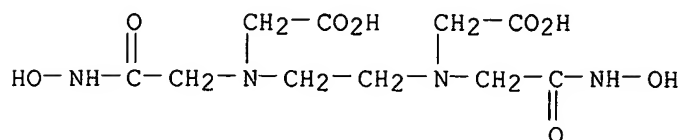
RN 127-07-1 HCAPLUS

CN Urea, hydroxy- (6CI, 8CI, 9CI) (CA INDEX NAME)



RN 35046-92-5 HCAPLUS

CN Glycine, N,N'-1,2-ethanediylbis[N-[2-(hydroxyamino)-2-oxoethyl]- (9CI)
(CA INDEX NAME)



L65 ANSWER 10 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:216781 HCAPLUS

DN 138:262712

TI Method for **ink-jet printing** including step
of forming overcoat layer on image

IN Sumioka, Koichi

PA Mitsubishi Paper Mills, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT **Patent**

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003080819	A	20030319	JP 2001-274987	20010911 <--
PRAI	JP 2001-274987		20010911 <--		

AB The title method includes the steps of: forming images on a **recording sheet** having an **ink-acceptor** layer on a support by **ink-jet printing**; and forming an over coat layer on the image with a coating solution containing hydrazine derivative. The method provides improved storageability of the **printed** image while providing photog.-like images.

IC ICM B41M0005-00

ICS B41M0005-00; B41J0002-01

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **ink jet printing** overcoat

IT **Ink-jet printing**

(method for **ink-jet printing** using specific **printing** paper)

IT **Ink-jet recording sheets**

(paper; method for **ink-jet printing** using specific **printing** paper)

IT Paper

(**printing**, **ink-jet**; method for **ink-jet printing** using specific **printing** paper)

IT 10270-01-6 105658-32-0 209545-30-2 502498-19-3

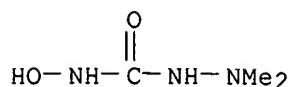
RL: TEM (Technical or engineered material use); USES (Uses)
(overcoat layer; method for **ink-jet printing** using specific **printing** paper)

IT 209545-30-2

RL: TEM (Technical or engineered material use); USES (Uses)
(overcoat layer; method for **ink-jet printing** using specific **printing** paper)

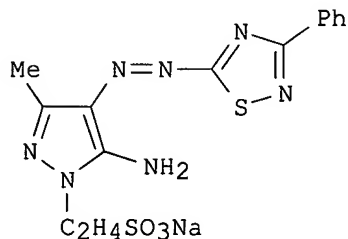
RN 209545-30-2 HCAPLUS

CN Hydrazinecarboxamide, N-hydroxy-2,2-dimethyl- (9CI) (CA INDEX NAME)



L65 ANSWER 11 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 2003:112933 HCAPLUS
 DN 138:172019
 TI Water-based storage-stable **ink-jet inks**
 giving **prints** with good water resistance and sharpness and
ink-jet recording method using them
 IN Nishida, Nobuhiro; Fujiwara, Yoshinori
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 36 pp.
 CODEN: JKXXAF
 DT **Patent**
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003041163	A	20030213	JP 2001-224807	20010725 <--
PRAI	JP 2001-224807		20010725	<--	
OS	MARPAT 138:172019				
GI					



AB The **inks** contain dyes which are miscible with an aqueous medium containing a water-soluble organic solvent and a specific N compound where the dyes

are selected from N=N group-containing 3-aminopyrazole compds., N=N group-containing condensed pyrazole compds. or/and N=N group-containing 6-hydroxy-2-pyridone compds. The **inks** are useful for **printing** of substrates such as paper bearing an inorg. pigment-coated **ink** receptive layer. Thus, a yellow **ink** was obtained from I 14.7, diethylene glycol 160, glycerin 150, triethylene glycol monobutyl ether 130, triethanolamine 0.8, benzotriazole 0.06, Proxel XL-2 2.5, Surfynol 465 10 and Me₂NNHCOC₆H₄(SO₃Na)-2 9.45 g/L in water. The yellow **ink** could be used with other conventional color **inks** in **ink jet printing** for yielding good **print** quality.

IC ICM C09D0011-00
 ICS B41J0002-01; B41M0005-00; C09B0029-36; C09B0029-48
 CC 42-12 (Coatings, Inks, and Related Products)
 ST azo pyrazole dye hydrazine sulfobenzamide stabilizer waterborne

jet ink; ink jet recording
ink water resistance dye pyrazole hydroxypyridone

IT Stabilizing agents
(N-containing compds.; manufacture of water-based storage-stable ink-jet inks giving prints with good water resistance and sharpness and ink-jet recording method using them)

IT Inks
(jet-printing; manufacture of water-based storage-stable ink-jet inks giving prints with good water resistance and sharpness and ink-jet recording method using them)

IT Dyes
(manufacture of water-based storage-stable ink-jet inks giving prints with good water resistance and sharpness and ink-jet recording method using them)

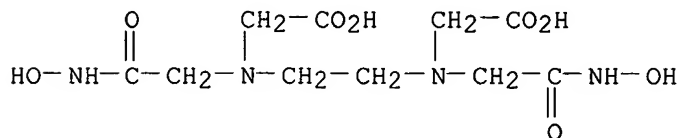
IT 35046-92-5 145022-35-1 362599-89-1 414894-91-0 414894-94-3
414894-97-6 414895-06-0 414895-10-6 496856-85-0 496856-86-1
RL: MOA (Modifier or additive use); USES (Uses)
(stabilizer; manufacture of water-based storage-stable ink-jet inks giving prints with good water resistance and sharpness and ink-jet recording method using them)

IT 365280-26-8 365280-35-9 365280-37-1 494800-75-8 496856-83-8
496856-84-9
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(yellow dye; manufacture of water-based storage-stable ink-jet inks giving prints with good water resistance and sharpness and ink-jet recording method using them)

IT 35046-92-5
RL: MOA (Modifier or additive use); USES (Uses)
(stabilizer; manufacture of water-based storage-stable ink-jet inks giving prints with good water resistance and sharpness and ink-jet recording method using them)

RN 35046-92-5 HCAPLUS

CN Glycine, N,N'-1,2-ethanediyldis[N-(2-(hydroxyamino)-2-oxoethyl)]- (9CI)
(CA INDEX NAME)



L65 ANSWER 12 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:846506 HCAPLUS

DN 137:360380

TI Ink-jet recording material and ink
for ink-jet recording containing
carbohydrazide derivative and 4-oxysemicarbazide derivative for improved
image quality.

IN Sumioka, Koichi; Haino, Kozo

PA Mitsubishi Paper Mills, Ltd., Japan

SO Ger. Offen., 30 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10218503	A1	20021107	DE 2002-10218503	20020425 <--
	DE 10218503	B4	20060126		
	JP 2002321447	A	20021105	JP 2001-128984	20010426 <--
	JP 2003048372	A	20030218	JP 2001-245125	20010813 <--
PRAI	JP 2001-128984	A	20010426	<--	
	JP 2001-162488	A	20010530	<--	
	JP 2001-245125	A	20010813	<--	

AB An **ink-jet recording** material, which consists of support and an **ink**-receiving layer thereon, is described in which the **recording** layer contains ≥ 1 carbonylhydrazide compound in which ≥ 1 N atoms in the 1-position and 5-position is substituted with 2 substituents that are different from H and a compound with a 4-oxysemicarbazide structure. The **ink** also contains > 1 of the above compds.

IC B41M0005-00; C09D0011-16

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 42

ST **ink jet recording** material carbonylhydrazide oxysemicarbazide

IT 5302-21-6 27827-93-6 474096-87-2 474787-14-9 474787-15-0
 474787-16-1 474787-17-2 474787-18-3 474787-19-4
 474787-20-7 474787-21-8 474787-23-0

RL: MOA (Modifier or additive use); USES (Uses)

(ink-jet recording material and

ink containing carbonylhydrazide derivative and oxysemicarbazide derivative for improved image quality)

IT 10270-01-6P 209545-30-2P 474787-22-9P

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(ink-jet recording material and

ink containing carbonylhydrazide derivative and oxysemicarbazide derivative for improved image quality)

IT 57-14-7, 1,1-Dimethylhydrazine 102-09-0, Diphenyl carbonate 593-56-6,
 O-Methylhydroxylamine hydrochloride 1885-14-9, Phenyl chloroformate
 7803-49-8, Hydroxylamine, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(ink-jet recording material and

ink containing carbonylhydrazide derivative and oxysemicarbazide derivative for improved image quality)

IT 18197-54-1P 38064-07-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(ink-jet recording material and

ink containing carbonylhydrazide derivative and oxysemicarbazide derivative for improved image quality)

IT 1344-28-1, Aluminum oxide, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(particles; ink-jet recording material

and ink containing carbonylhydrazide derivative and oxysemicarbazide derivative for improved image quality)

IT 7631-86-9, Silica, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(quartz-type, powdered; **ink-jet recording** material and **ink** containing carbonylhydrazide derivative and oxysemicarbazide derivative for improved image quality)

IT 5302-21-6 474787-18-3 474787-19-4
474787-20-7

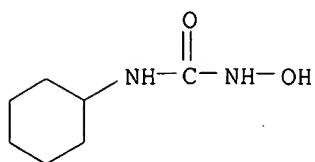
RL: MOA (Modifier or additive use); USES (Uses)

(**ink-jet recording** material and

ink containing carbonylhydrazide derivative and oxysemicarbazide derivative for improved image quality)

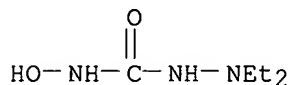
RN 5302-21-6 HCAPLUS

CN Urea, N-cyclohexyl-N'-hydroxy- (9CI) (CA INDEX NAME)



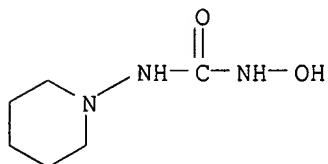
RN 474787-18-3 HCAPLUS

CN Hydrazinecarboxamide, 2,2-diethyl-N-hydroxy- (9CI) (CA INDEX NAME)



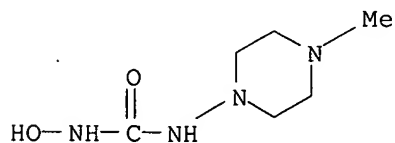
RN 474787-19-4 HCAPLUS

CN Urea, N-hydroxy-N'-1-piperidinyl- (9CI) (CA INDEX NAME)



RN 474787-20-7 HCAPLUS

CN Urea, N-hydroxy-N'-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



IT 209545-30-2P

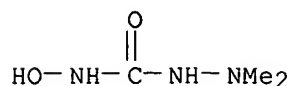
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(**ink-jet recording** material and

ink containing carbonylhydrazide derivative and oxysemicarbazide derivative for improved image quality)

RN 209545-30-2 HCAPLUS

CN Hydrazinecarboxamide, N-hydroxy-2,2-dimethyl- (9CI) (CA INDEX NAME)



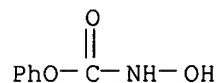
IT 38064-07-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(**ink-jet recording** material and **ink** containing carbohydrazide derivative and oxysemicarbazide derivative for improved image quality)

RN 38064-07-2 HCAPLUS

CN Carbamic acid, hydroxy-, phenyl ester (6CI, 9CI) (CA INDEX NAME)



L65 ANSWER 13 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:812007 HCAPLUS

DN 137:312526

TI Ink compositions azo dyes and amines for **ink-jet recording**

IN Omatsu, Tadashi; Noro, Masaki; Fujiwara, Toshiki

PA Fuji Photo Film Co., Ltd., Japan

SO Eur. Pat. Appl., 74 pp.

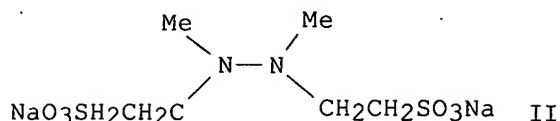
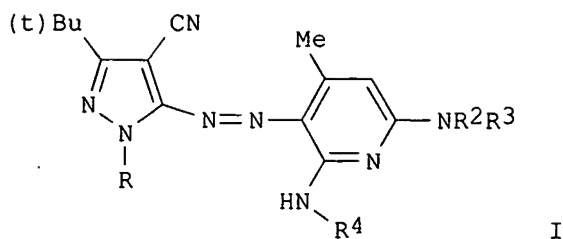
CODEN: EPXXDW

DT **Patent**

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1251154	A1	20021023	EP 2002-8394	20020412 <--
	EP 1251154	B1	20060118		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002309137	A	20021023	JP 2001-114186	20010412 <--
	US 2003097959	A1	20030529	US 2002-119897	20020411 <--
	US 6827771	B2	20041207		
	AT 316125	T	20060215	AT 2002-8394	20020412 <--
PRAI	JP 2001-114186	A	20010412	<--	
OS	MARPAT 137:312526				
GI					



AB An ink composition for ink-jet recording

comprises: an azo dye having an aromatic nitrogen-containing 6-membered heterocycle as a coupling component; a compound represented by R₁R₂R₃N (R₁ and R₂ represent a hydrogen atom, an aliphatic group, an aromatic group, a heterocyclic group, an acyl group, an aliphatic oxycarbonyl group, an aromatic oxycarbonyl group, an aliphatic sulfonyl group, an aromatic sulfonyl group, a substituted or unsubstituted carbamoyl group, or a substituted or unsubstituted thiocarbamoyl group; R₃ represents an aliphatic group, an aromatic

group, a heterocyclic group, an aliphatic oxy group, an aromatic oxy group, an aliphatic thio group, an aromatic thio group, an acyloxy group, an aliphatic oxycarbonyloxy group, an aromatic oxycarbonyloxy group, a substituted or unsubstituted amino group or a hydroxy group; and at least one of a pair R₁ and R₂, a pair R₂ and R₃, and a pair R₃ and R₁ may be coupled to form a 5-, 6- or 7-membered ring with the proviso that the ring formed is not a 2,2,6,6-tetraalkylpiperidine skeleton); and an aqueous medium wherein the azo dye is dissolved or dispersed in the aqueous medium. An ink contained I dye, II, and solvents, surfactants, and additives.

IC ICM C09D0011-00

CC 42-12 (Coatings, Inks, and Related Products)

ST jet ink azo dye amine

IT Azo dyes

(ink compns. azo dyes and amines for ink-jet recording)

IT Inks

(jet-printing; ink compns. azo dyes and amines for ink-jet recording)

IT 127-07-1 3710-84-7 35046-92-5 54711-45-4

57980-94-6 69938-76-7 89463-71-8 139995-45-2 145022-35-1

209545-31-3 223507-11-7 414894-91-0 414894-94-3 414894-97-6

414894-99-8 414895-06-0 414895-10-6 414895-12-8 414895-14-0

414895-29-7 433710-83-9 433710-93-1 433710-94-2

433710-96-4 433710-99-7

RL: MOA (Modifier or additive use); USES (Uses)

(ink compns. azo dyes and amines for ink-jet recording)

IT 473314-01-1 473314-02-2 473314-03-3 473314-04-4 473314-05-5

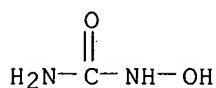
473314-06-6 473314-07-7 473314-10-2 473314-12-4 473314-14-6

473314-16-8 473314-18-0

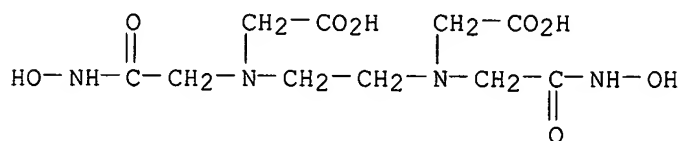
RL: TEM (Technical or engineered material use); USES (Uses)

(ink compns. azo dyes and amines for ink-jet recording)

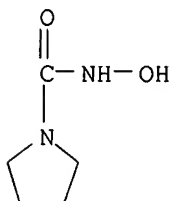
jet recording)
 IT 127-07-1 35046-92-5 54711-45-4
 433710-94-2
 RL: MOA (Modifier or additive use); USES (Uses)
 (ink compns. azo dyes and amines for ink-
 jet recording)
 RN 127-07-1 HCAPLUS
 CN Urea, hydroxy- (6CI, 8CI, 9CI) (CA INDEX NAME)



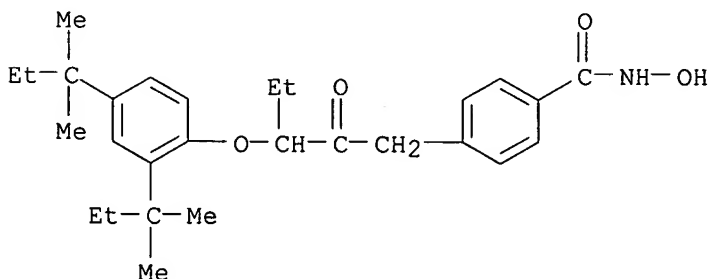
RN 35046-92-5 HCAPLUS
 CN Glycine, N,N'-1,2-ethanediylbis[N-{2-(hydroxyamino)-2-oxoethyl}- (9CI)
 (CA INDEX NAME)



RN 54711-45-4 HCAPLUS
 CN 1-Pyrrolidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



RN 433710-94-2 HCAPLUS
 CN Benzamide, 4-[3-[2,4-bis(1,1-dimethylpropyl)phenoxy]-2-oxopentyl]-N-hydroxy- (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
----------------------------	---------------	--------------	-------------	--------------------------	--------------------

Agfa Gevaert Ag	1998		EP 0882600 A	HCAPLUS
Seiko Epson Corp	1999		EP 0909798 A	HCAPLUS
Xerox Corp	1999		EP 0913434 A	HCAPLUS
Yui, T	1995		US 5462590 A	HCAPLUS

L65 ANSWER 14 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:436723 HCAPLUS

DN 137:21600

TI **Jet-printing ink** compositions with good fastness and water resistance and image-forming method

IN Omatsu, Tadashi; Noro, Masaki

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 56 pp.

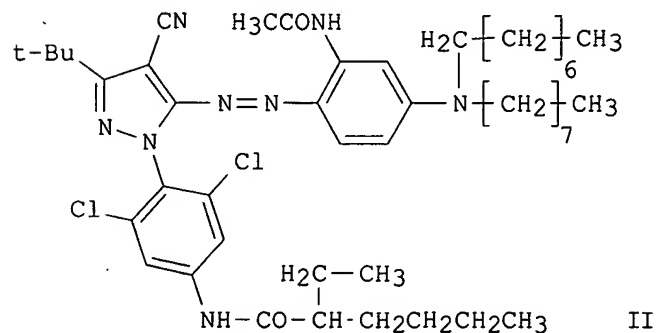
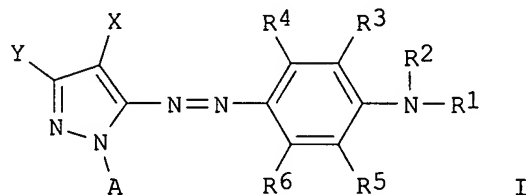
CODEN: JKXXAF

DT **Patent**

LA Japanese

FAN.CNT 1

	PATENT NO.	<i>ink comp.</i> KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002167531	A	20020611	JP 2000-363201	20001129 <--
	US 2002096082	A1	20020725	US 2001-995761	20011129 <--
	US 6682590	B2	20040127		
PRAI	JP 2000-363201	A	20001129	<--	
OS	MARPAT 137:21600				
GI					



AB The compns. include NR101R102R103 (R101, R102 = H, aliphatic, aromatic, and heterocyclic groups, etc.; R103 = aliphatic, aromatic, and aliphatic thioxy groups,

etc.) and oil-soluble azo dyes I [R1, R2 = (substituted) alkyl, alkenyl, cycloalkyl, aralkyl; R3-R6 = H, halo, alkyl, etc.; X =

electron-withdrawing group having Hammett σ constant of ≥ 0.20 ;
 Y = secondary or tertiary alkyl, (substituted) aryl; A = nonmetal atomic groups forming 5-8-membered rings] dissolved in organic solvents having high m.ps. and dispersed in aqueous media. Thus, II and Na dioctylsulfosuccinate were dissolved in a mixture comprising (MeC₆H₅)₃P:O, (Me₂CHCCH₂CHMeCH₂O)₃P:O, and Et acetate and dispersed in water to give an aqueous emulsion. Image formed with ink containing the emulsion and Me₂NN(CH₂CH₂CO₂C₈H₁₇)₂ showed no blur after soaking in water for 10 s and good light and heat fastness.

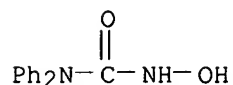
- IC ICM C09D0011-00
 ICS B41J0002-01; B41M0005-00
- CC 42-12 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 74
- ST oil sol azo dye **jet printing ink**; dimethyl dioctyloxycarbonylethyl hydrazine **jet printing ink**; water resistance azo dye **jet printing ink**; light fastness azo dye **jet printing ink**; discoloration prevention agent hydrazine azo dye **ink**
- IT Oximes
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (discoloration prevention agents; **jet-printing ink** compns. with good fastness and water resistance)
- IT Discoloration prevention agents
 (hydrazines or oximes; **jet-printing ink** compns. with good fastness and water resistance)
- IT Ink-jet printing
 (**jet-printing ink** compns. with good fastness and water resistance)
- IT Water-resistant materials
 (**jet-printing inks**; **jet-printing ink** compns. with good fastness and water resistance)
- IT Inks
 (**jet-printing**, water-resistant; **jet-printing ink** compns. with good fastness and water resistance)
- IT Inks
 (**jet-printing**, water-thinned, containing oil-soluble dyes; **jet-printing ink** compns. with good fastness and water resistance)
- IT Azo dyes
 (oil-soluble; **jet-printing ink** compns. with good fastness and water resistance)
- IT 302-01-2, Hydrazine, uses 621-12-5 15973-74-7 **53731-89-8**
 433710-77-1 433710-79-3 433710-81-7 433710-83-9 433710-85-1
 433710-89-5 433710-91-9 433710-92-0 433710-93-1 **433710-94-2**
 433710-95-3 433710-96-4 433710-98-6 433710-99-7 433711-00-3
 433711-01-4
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (discoloration prevention agents; **jet-printing ink** compns. with good fastness and water resistance)
- IT 377776-97-1 377777-01-0 377777-10-1 433711-02-5 433711-03-6
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dyes; **jet-printing ink** compns. with good fastness and water resistance)
- IT **53731-89-8 433710-94-2**
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material

use); USES (Uses)

(discoloration prevention agents; **jet-printing**
ink compns. with good fastness and water resistance)

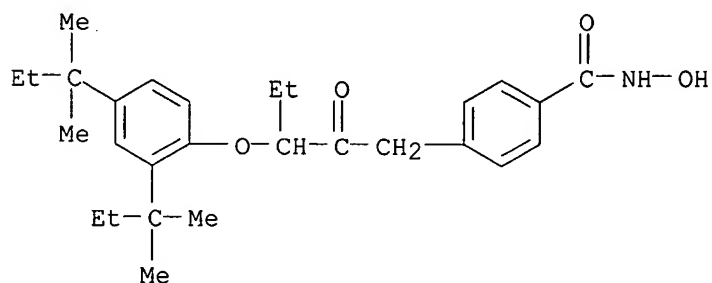
RN 53731-89-8 HCAPLUS

CN Urea, N'-hydroxy-N,N-diphenyl- (9CI) (CA INDEX NAME)



RN 433710-94-2 HCAPLUS

CN Benzamide, 4-[3-[2,4-bis(1,1-dimethylpropyl)phenoxy]-2-oxopentyl]-N-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 15 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:305905 HCAPLUS

DN 136:327139

TI Water-thinned ink compositions for jet
printing

IN Omatsu, Tadashi; Noro, Masaki

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 44 pp.

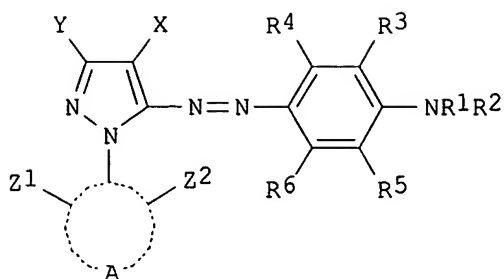
CODEN: JKXXAF

DT **Patent**

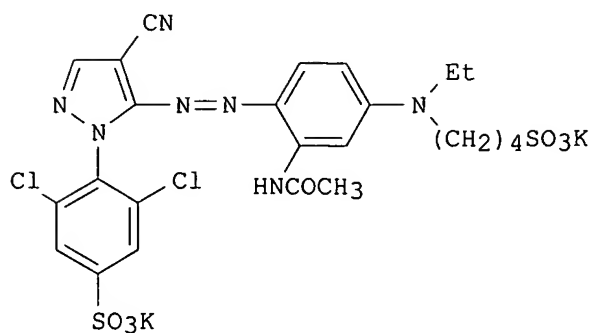
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002121430	A	20020423	JP 2000-311005	20001011 <--
PRAI	JP 2000-311005		20001011	<--	
OS	MARPAT 136:327139				
GI					



I



II

AB The compns. comprise water-soluble dyes I [X = electron-withdrawing group, R1-R6, Y = H, halo, alkyl, cycloalkyl, aralkyl, aryl, heterocyclic, cyano, OH, nitro, amino, alkylamino, alkoxy, aryloxy, amido, arylamino, ureido, sulfamoylamino, alkylthio, arylthio, alkoxycarbonylamino, sulfonamido, carbamoyl, sulfamoyl, sulfonyl, alkoxycarbonyl, heterocyclic oxy, azo, acyloxy, carbamoyloxy, silyloxy, aryloxy, alkoxycarbonyl, aryloxy, carbonylamino, imido, heterocyclic thio, sulfinyl, phosphoryl, acyl, ionically hydrophilic group; R1 and R2, R3 and R1, and R2 and R5 may form a ring; Z1, Z2 = H, halo, alkyl, cycloalkyl, aralkyl, aryl, heterocyclic, cyano, OH, nitro, amino, alkylamino, alkoxy, aryloxy, amido, arylamino, ureido, sulfamoylamino group, etc.; A = necessary nonmetal atom group for forming 5-8 membered (un)saturated ring; ≥ 1 of R1-R6, X, Y, Z1, Z2, and A having ionically hydrophilic group] and NR101R102R103 [R101, R102 = H, aliphatic, aromatic, heterocyclic, acyl, oxycarbonyl, sulfonyl, (un)substituted (thio)carbamoyl; R103 = aliphatic, aromatic, aliphatic oxy, aromatic oxy, thio, acyloxy, oxycarbonyloxy, (un)substituted amino, heterocyclic, OH; R101, and R102, R102 and R103, R103 and R101 may form a 5-7 membered ring except 2,2,6,6-tetraalkylpiperidinyl]. Thus, II 3.75, diethylene glycol 150, urea 37, glycerin 130, triethylene glycol monobutyl ether 130, NaO3SCH2CH2NMeNMeCH2CH2SO3Na 2.0, triethanolamine 6.9, benztriazole 0.08, Proxel XL 2 3.5g, and H2O were mixed to give an **ink** showing good **printability** and giving images with good hue, lightfastness, water resistance, and storage stability.

IC ICM C09D0011-00

ICS B41J0002-01; B41M0005-00

CC 42-12 (Coatings, Inks, and Related Products)

Section cross-reference(s): 41

ST aq **jet printing ink** azo dye; lightfastness
water thinned **jet printing ink** dye; storage

IT Water-resistant materials

(**jet-printing inks**; water-thinned

jet printing inks with good hue, storage stability, lightfastness, and water resistance)

IT Inks (jet-printing, water-resistant; water-thinned jet printing inks with good hue, storage stability, lightfastness, and water resistance)

IT Inks (jet-printing, water-thinned; water-thinned jet printing inks with good hue, storage stability, lightfastness, and water resistance)

IT Dyes (water-soluble, azo; water-thinned jet printing inks with good hue, storage stability, lightfastness, and water resistance)

IT Azo dyes (water-thinned jet printing inks with good hue, storage stability, lightfastness, and water resistance)

IT 41378-27-2P 56978-60-0P 377776-80-2P 414895-18-4P 414895-21-9P 414895-25-3P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (dye intermediate; water-thinned jet printing inks with good hue, storage stability, lightfastness, and water resistance)

IT 371229-90-2P 371229-93-5P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (water-thinned jet printing inks with good hue, storage stability, lightfastness, and water resistance)

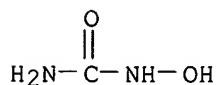
IT 123-06-8 608-31-1, 2,6-Dichloroaniline
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (water-thinned jet printing inks with good hue, storage stability, lightfastness, and water resistance)

IT 127-07-1 3710-84-7 35046-92-5 54711-45-4
 57980-94-6 69938-76-7 89463-71-8 139995-45-2 145022-35-1
 209545-31-3 362599-89-1 402942-79-4 414894-87-4 414894-89-6
 414894-91-0 414894-94-3 414894-97-6 414894-99-8 414895-06-0
 414895-10-6 414895-12-8 414895-14-0 414895-29-7
 RL: TEM (Technical or engineered material use); USES (Uses)
 (water-thinned jet printing inks with good hue, storage stability, lightfastness, and water resistance)

IT 127-07-1 35046-92-5 54711-45-4
 RL: TEM (Technical or engineered material use); USES (Uses)
 (water-thinned jet printing inks with good hue, storage stability, lightfastness, and water resistance)

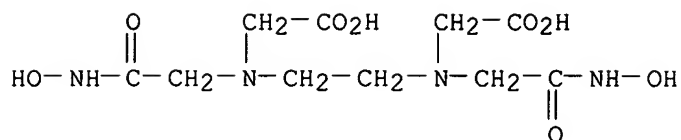
RN 127-07-1 HCAPLUS

CN Urea, hydroxy- (6CI, 8CI, 9CI) (CA INDEX NAME)



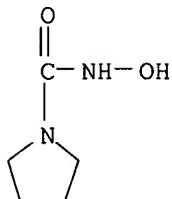
RN 35046-92-5 HCAPLUS

CN Glycine, N,N'-1,2-ethanediylbis[N-[2-(hydroxyamino)-2-oxoethyl]- (9CI)
 (CA INDEX NAME)



RN 54711-45-4 HCAPLUS

CN 1-Pyrrolidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 16 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2001:668353 HCAPLUS

DN 135:228331

TI Phase change acoustic **ink** compositions

IN Malhotra, Shadi L.

PA Xerox Corporation, USA

SO U.S., 11 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6288141	B1	20010911	US 2000-542904	20000403 <--
PRAI	US 2000-542904		20000403	<--	

AB An **ink** composition comprises (1) a polymeric carbamate compound, (2) an organic monomer carbamate, (3) a conductive compound, (4) a lightfastness compound, and (5) a colorant. The **ink** has a conductivity .apprx.6-8 log(pico-Ω/cm) at 150°.

IC ICM C09D0011-10

ICS C08L0079-00; C08K0005-205

INCL 523160000

CC 42-12 (Coatings, Inks, and Related Products)

ST phase change acoustic **printing ink**; hot melt acoustic **printing ink**; carbamate binder viscosity modifier
acoustic **ink**; lightfastness compd acoustic **ink**;
conductive compd acoustic **ink**

IT **Inks**

(jet-printing; phase change acoustic
printing ink compns. for lightfast waterfast images
on various papers)

IT Antioxidants

Coloring materials

Light stabilizers(phase change acoustic **printing ink** compns. containing)

IT 1518-58-7 20624-25-3 21124-33-4, Diethyldithiocarbamic acid ammonium
salt 23328-87-2, 2-Heptadecylimidazole 32673-41-9,
4-(Hydroxymethyl)imidazole hydrochloride

RL: TEM (Technical or engineered material use); USES (Uses)
(conductor; phase change acoustic **printing ink**
compns. containing)

IT 104-38-1, Hydroquinone bis(2-hydroxyethyl)ether 128-04-1, Sodium dimethyl dithiocarbamate 142-59-6, Disodium ethylenebis-dithiocarbamate 594-07-0D, Dithiocarbamic acid, Molybdenum oxysulfide derivs. 3401-73-8 6683-19-8, Pentaerythritol tetrakis[3,5-di-tert-butyl-4-hydroxy] hydrocinnamate 30947-30-9 51026-28-9, Potassium N-hydroxymethyl-N-methyldithiocarbamate 53321-72-5D, Molybdenum oxysulfide, dithiocarbamate derivs.

RL: TEM (Technical or engineered material use); USES (Uses)
(lightfastness compound; phase change acoustic **printing ink** compns. containing)

IT 4314-14-1, Sudan Yellow 146 6368-72-5, Sudan Red 462 12237-22-8, Neozapon Black X51 17354-14-2, Sudan Blue 670 26264-86-8 36671-85-9, Poly(vinyl N-octadecyl carbamate)

RL: TEM (Technical or engineered material use); USES (Uses)
(phase change acoustic **printing ink** compns. containing)

IT 150-11-8D, derivs. 592-35-8, Butyl carbamate 603-52-1, Ethyldiphenyl carbamate 621-84-1, Benzyl carbamate 672-99-1, 4-Bromo-3,5-dimethylphenyl N-methylcarbamate 2114-18-3, 2-Chloroethyl carbamate 3426-71-9, Benzyl N-hydroxycarbamate 4248-19-5, tert-Butyl carbamate 7250-18-2, Benzyl-N,N-dimethyldithio carbamate 17508-16-6, tert-Butyl-(2,4-dinitrophenoxy) carbamate 36016-38-3, tert-Butyl N-hydroxy carbamate 61540-35-0, Cyanomethyl-N,N-dimethyl dithiocarbamate 77987-49-6, Benzyl N-(2-hydroxyethyl) carbamate 79722-21-7, tert-Butyl-N-benzyloxy carbamate 85006-25-3, tert-Butyl-N-(tert-butoxycarbonyloxy) carbamate 87219-29-2, Benzyl-(S)-(-)-tetrahydro-5-oxo-3-furanyl carbamate 302346-88-9

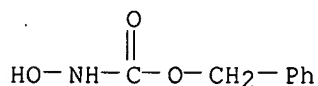
RL: TEM (Technical or engineered material use); USES (Uses)
(viscosity modifier; phase change acoustic **printing ink** compns. containing)

IT 3426-71-9, Benzyl N-hydroxycarbamate 36016-38-3, tert-Butyl N-hydroxy carbamate

RL: TEM (Technical or engineered material use); USES (Uses)
(viscosity modifier; phase change acoustic **printing ink** compns. containing)

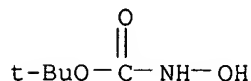
RN 3426-71-9 HCAPLUS

CN Carbamic acid, hydroxy-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 36016-38-3 HCAPLUS

CN Carbamic acid, hydroxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Baratto	1987			US 4704163	HCAPLUS

Breton	2000		US 6045607	HCAPLUS
Breton	2000		US 6096125	HCAPLUS
Breton	2000		US 6106599	HCAPLUS
Bui	2000		US 6133353	HCAPLUS
Ito	1997		US 5693126	HCAPLUS
Kitamura	2000		US 6100315	HCAPLUS
Malhotra	1999		US 5876492	HCAPLUS
Malhotra	2000		US 6086661	HCAPLUS
Wong	2000		US 6096124	HCAPLUS

L65 ANSWER 17 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:605621 HCAPLUS

DN 133:194790

TI **Jet printing** ink compositions containing
oxazolines and carbamatesIN Breton, Marcel P.; Malhotra, Shadi L.; Wong, Raymond W.; Boils, Danielle
C.; Tripp, Carl P.; Sundararajan, Pudupadi R.

PA Xerox Corp., USA

SO U.S., 14 pp.

CODEN: USXXAM

DT **Patent**

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6110265	A	20000829	US 1999-300331	19990427 <--
	JP 2000327977	A	20001128	JP 2000-104295	20000406 <--
	US 6334890	B1	20020101	US 2000-599251	20000622 <--
PRAI	US 1999-300331	A	19990427	<--	

AB An **ink** composition comprised of (1) a solid oxazoline compound with a
m.p. of 60-120° and an acoustic-loss value of 25-80 dB/mm; (2) a
carbamate compound with a m.p. of 25-100°; (3) an alc. compound; (4) a
lightfastness component; (5) a lightfastness antioxidant; and (6) a
colorant.

IC ICM C09D0011-00

INCL 106031490

CC 42-12 (Coatings, Inks, and Related Products)

ST oxazoline carbamate **jet printing ink**

IT Antioxidants

Light stabilizers(jet printing ink compns. containing
oxazolines and carbamates)

IT Alcohols, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(jet printing ink compns. containing
oxazolines and carbamates)IT **Inks**(jet-printing; jet printing
ink compns. containing oxazolines and carbamates)IT 30947-30-9 37767-39-8, Tetrasodium N-(1,2-dicarboxyethyl)-N-octadecyl
sulfosuccinamate 38916-42-6, Aerosol 22N 53321-72-5D, Molybdenum
oxysulfide, dithiocarbamate derivs.

RL: MOA (Modifier or additive use); USES (Uses)

(antioxidant; jet printing ink compns.
containing oxazolines and carbamates)

IT 594-07-0D, Dithiocarbamic acid, molybdenum oxysulfide derivs.

RL: MOA (Modifier or additive use); USES (Uses)

(jet printing ink compns. containing
oxazolines and carbamates)

IT 78-26-2 78-66-0, 3,6-Dimethyl-4-octyne-3,6-diol 98-52-2, 4-tert-Butyl

cyclohexanol 110-65-6, 2-Butyne-1,4-diol; 111-41-1, 2-(2-Aminoethylamino) ethanol 115-76-4, 2,2-Diethyl-1,3-propanediol; 128-04-1, Sodium dimethyl dithiocarbamate 142-59-6, Disodium ethylenebis-dithiocarbamate 144-19-4, 2,2,4-Trimethyl-1,3-pentanediol; 148-18-5, Diethyldithiocarbamic acid, sodium salt 156-87-6, 3-Amino-1-propanol 592-35-8, Butyl carbamate 603-52-1, Ethyldiphenylcarbamate; 621-84-1, Benzyl carbamate; 672-99-1 929-06-6, 2-(2-Aminoethoxy)ethanol; 1124-63-6, 3-Cyclohexyl-1-propanol 1518-58-7, Diethylammonium diethyldithio carbamate 1611-56-9, 11-Bromo-1-undecanol; 2160-94-3, 3-Cyclohexene-1,1-dimethanol; 2508-29-4, 5-Amino-1-pentanol 2621-79-6, Ethyl N-methyl-N-phenylcarbamate 3344-77-2, 12-Bromo-1-dodecanol; **3426-71-9**, Benzyl N-hydroxycarbamate 4048-33-3, 6-Amino-1-hexanol; 4248-19-5, tert-Butyl carbamate 4314-14-1, Sudan Yellow 146 4453-82-1, Dicyclohexylmethanol 4704-94-3, (2-(Hydroxymethyl)-1,3-propanediol; 5244-34-8, 3,6-Dithia-1,8-octanediol; 6228-25-7, 1,3-Dioxane-5,5-dimethanol; 6368-72-5, Sudan Red 462 7250-18-2, Benzyl-N,N-dimethyldithiocarbamate 10254-57-6 12237-22-8, Neozapon Black X51 13325-10-5, 4-Amino-1-butanol 15647-11-7, 3-Aminomethyl-3,5,5-trimethyl cyclohexanol 16369-05-4, 2-Amino-3-methyl-1-butanol; 16397-19-6, DL-2-Amino-1-hexanol; 17354-14-2, Sudan Blue 670 17508-16-6, tert-Butyl-(2,4-dinitrophenoxy) carbamate 17793-95-2, cis-3,5-Cyclohexadiene-1,2-diol; 21124-33-4, Diethyldithiocarbamic acid, ammonium salt 27193-25-5, Cyclohexane dimethanol **36016-38-3**, tert-Butyl-N-hydroxycarbamate; 42822-86-6, p-Menthane-3,8-diol 51026-28-9, Potassium N-hydroxy methyl-N-methyl-dithiocarbamate 56207-45-5, 2,2,6,6-Tetrachloro cyclohexanol 58885-58-8, tert-Butyl N-(3-hydroxypropyl) carbamate 61540-35-0 75178-96-0, tert-Butyl N-(3-aminopropyl) carbamate 77987-49-6, Benzyl N-(2-hydroxyethyl)carbamate 78888-18-3, tert-Butyl-N-allylcarbamate; 79722-21-7, tert-Butyl-N-benzyloxy)-carbamate; 82010-31-9 85006-25-3, tert-Butyl-N-(tert-butoxycarbonyloxy) carbamate 87219-29-2, Benzyl(S)-(-)-tetrahydro-5-oxo-3-furanyl carbamate 103322-56-1, (S)-2-(tert-Butoxy carbonyl amino)-3-cyclohexyl-1-propanol 103808-94-2, 2-Amino-3-cyclohexyl-1-propanol 116747-80-9 200506-87-2 288376-87-4

RL: TEM (Technical or engineered material use); USES (Uses)

(jet printing ink compns. containing oxazolines and carbamates)

IT 91-53-2 16432-81-8, 2-(4-Benzoyl-3-hydroxyphenoxy)ethyl acrylate 71029-16-8, 1,1-(1,2-Ethane diyl) bis(3,3,5,5-tetramethyl piperazinone) 79720-19-7, 2-Dodecyl-N-(2,2,6,6-tetramethyl-4-piperidiny) succinimide 91613-20-6

RL: MOA (Modifier or additive use); USES (Uses)

(lightfastness agent; jet printing ink compns. containing oxazolines and carbamates)

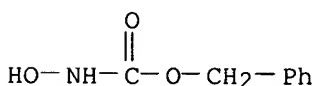
IT **3426-71-9**, Benzyl N-hydroxycarbamate **36016-38-3**, tert-Butyl-N-hydroxycarbamate;

RL: TEM (Technical or engineered material use); USES (Uses)

(jet printing ink compns. containing oxazolines and carbamates)

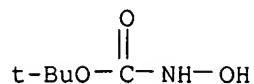
RN 3426-71-9 HCAPLUS

CN Carbamic acid, hydroxy-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 36016-38-3 HCAPLUS

CN Carbamic acid, hydroxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Cooke	1991			US 5041161	HCAPLUS
Guiles	1988			US 4791439	
Hadimioglu	1992			US 5111220	
Hadimoglu	1992			US 5121141	
Koike	1989			US 4853036	HCAPLUS
Koike	1992			US 5124718	HCAPLUS
Komazaki	1998			US 5840806	HCAPLUS
Malhotra	1998			US 5744273	HCAPLUS
Malhotra	1998			US 5746814	HCAPLUS
Malhotra	1999			US 5885678	HCAPLUS
Pontes	1997			US 5700316	HCAPLUS
Rezanka	1994			US 5371531	
Sacripante	1997			US 5667568	HCAPLUS
Sacripante	1997			US 5698017	HCAPLUS
Sakai	1997			US 5698128	
Schwarz	1989			US 4840674	HCAPLUS
Schwarz	1991			US 5006170	HCAPLUS
Schwarz	1992			US 5122187	HCAPLUS
Spehrley	1988			US 4751528	
Vaught	1984			US 4490731	

L65 ANSWER 18 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:531547 HCAPLUS

DN 133:152114

TI Ink compositions for jet printing

IN Breton, Marcel P.; Malhotra, Shadi L.; Boils, Danielle C.; Wong, Raymond W.; Sacripante, Guerino G.; Lennon, John M.

PA Xerox Corp., USA

SO U.S., 18 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6096125	A	20000801	US 1999-300332	19990427 <--
PRAI	US 1999-300332		19990427	<--	

AB An ink composition comprised of (1) a mixture comprised of a salt and an oxyalkylene compound wherein the conductive mixture possesses a m.p. of from about 60° C. to about 120° C.; (2) an ink vehicle compound with a m.p. of from about 80° C. to about 100° C.; (3) a viscosity modifying amide compound; (4) a lightfastness component; (5) a lightfastness antioxidant; and (6) a colorant.

IC ICM C09D0011-00

INCL 106031430

CC 42-12 (Coatings, Inks, and Related Products)

ST acoustic jet printing phase change ink

IT **Ink-jet printing**
(acoustic; ink compns. for jet printing)

IT Antioxidants
(ink compns. for jet printing)

IT Amides, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(ink compns. for jet printing)

IT **Inks**
(jet-printing, phase-change; ink compns. for jet printing)

IT 7439-98-7DP, Molybdenum, oxysulfide dithiocarbamate, uses 198835-96-ODP, potassium iodide salts 287102-17-4DP, potassium iodide salts
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(ink compns. for jet printing)

IT 57-11-4, Stearic acid, reactions 929-75-9 9046-10-0, JEFFAMINE D230
RL: RCT (Reactant); RACT (Reactant or reagent)
(ink compns. for jet printing)

IT 103-99-1 110-30-5, N,N'-Ethylene bis-stearamide 111-21-7 112-84-5, Erucamide 114-33-0, N-Methylnicotinamide 124-26-5, Octadecanamide 137-08-6, Pantothenic acid calcium salt 144-33-2, Citric acid disodium salt 144-48-9, Iodoacetamide 147-47-7 557-08-4 563-83-7, Isobutyramide 594-07-0D, Carbamodithioic acid, molybdenum oxysulfide derivs. 621-84-1, Benzyl carbamate 628-02-4, Hexanamide 867-81-2, Sodium pantothenic acid 1477-57-2 2386-53-0, 1-Dodecane sulfonic acid sodium salt 3073-59-4, N,N'-Hexamethylene bisacetamide **3426-71-9**, Benzyl N-hydroxycarbamate 4112-25-8 4248-19-5, tert-Butyl carbamate 4314-14-1, Sudan Yellow 146 4401-74-5, Urea phosphate 5785-44-4, Tricalcium dicitrate tetrahydrate 6368-72-5, Sudan Red 462 7550-35-8, Lithium bromide 7672-70-0 7681-11-0, Potassium iodide, uses 7681-82-5, Sodium iodide, uses 7758-02-3, Potassium bromide, uses 7791-18-6, Magnesium chloride hexahydrate 9004-99-3 9005-02-1 9035-84-1 10025-70-4, Strontium chloride hexahydrate 10233-24-6 10254-57-6 12237-22-8, Neozapon Black X51 13446-18-9, Magnesium nitrate hexahydrate 13477-34-4, Calcium nitrate tetrahydrate 16432-81-8, 2-(4-Benzoyl-3-hydroxyphenoxy)ethylacrylate 16674-78-5, Magnesium acetate tetrahydrate 17354-14-2, Sudan Blue 670 17640-28-7, Methyl 3,6-dioxahheptanoate 19082-42-9, Urea sulfate 20624-25-3 23328-60-1 25062-49-1 26403-62-3 27848-81-3, D-Lactic acid lithium salt 30947-30-9 31353-26-1, Dibutyl 3,6,9-trioxaundecanedioate 32774-97-3, Dioctyl 3,6,9-trioxaundecanedioate 33038-57-2, Didodecyl 3,6,9-trioxaundecanedioate 33051-23-9, Dihexyl 3,6,9-trioxaundecanedioate 35087-77-5, D-Gluconic acid potassium salt 37767-39-8, Tetra sodium-N-(1,2-dicarboxyethyl)-N-octadecyl sulfosuccinamate 38916-42-6, Aerosol 22N 40908-37-0, 4-Acetamido-2,2,6,6-tetramethylpiperidine 42610-23-1 53129-29-6, Diethyl 3,6,9-trioxaundecanedioate 54322-34-8, Dimethyl 3,6,9-trioxaundecanedioate 62576-71-0 64253-96-9, Zinc dichloride hexahydrate 71029-16-8, 1,1-(1,2-Ethane-diyl)bis(3,3,5,5-tetramethyl piperazinone) 83826-33-9 87219-29-2, Benzyl(S)-(-)-tetrahydro-5-oxo-3-furanyl carbamate 87826-44-6 89927-57-1 91613-20-6 91613-21-7, Mixxim HALS 63 94730-28-6 99952-27-9 100482-02-8 106917-30-0, 2-Dodecyl-N-(1,2,2,6,6-pentamethyl-4-piperidinyl)succinimide 130005-13-9 146773-42-4, Ethyl 3,6,9-trioxadecanoate 151493-20-8 161470-21-9, Dipropyl 3,6,9-trioxaundecanedioate 173685-05-7 191934-50-6, Stearyl 3,6,9-trioxadecanoate 195989-98-1, N,N'-Stearylène bis-stearamide 195990-00-2, N,N'-Octylene bis-lauramide 195990-02-4, N,N'-Stearylène bislauramide 198835-96-0 200506-82-7 200617-06-7, Dodecyl 3,6-dioxaheptanoate 200713-15-1, Butyl 3,6-dioxaheptanoate 200713-21-9, Heptyl 3,6-dioxaheptanoate 200713-22-0, Octyl

3,6-dioxaheptanoate 200713-25-3, Stearyl 3,6-dioxaheptanoate
 200713-30-0, Neopentyl 3,6,9-trioxadecanoate 200713-34-4, Nonyl
 3,6,9-trioxadecanoate 200713-35-5, Decyl 3,6,9-trioxadecanoate
 200713-37-7 200713-40-2, Diheptyl 3,6,9-trioxaundecanedioate
 200713-41-3, Dinonyl 3,6,9-trioxaundecanedioate 287102-16-3
 287104-89-6 287104-90-9

RL: TEM (Technical or engineered material use); USES (Uses)

(ink compns. for jet printing)

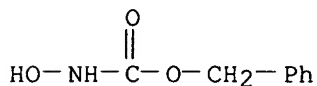
IT 3426-71-9, Benzyl N-hydroxycarbamate

RL: TEM (Technical or engineered material use); USES (Uses)

(ink compns. for jet printing)

RN 3426-71-9 HCAPLUS

CN Carbamic acid, hydroxy-, phenylmethyl ester (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Cooke	1991			US 5041161	HCAPLUS
El-Sayed	1995			US 5382492	HCAPLUS
Guiles	1988			US 4791439	
Hadimioglu	1992			US 5111220	
Hadimoglu	1992			US 5121141	
Koike	1989			US 4853036	HCAPLUS
Koike	1992			US 5124718	HCAPLUS
Lin	1996			US 5531818	HCAPLUS
Lu	1976			US 3985663	HCAPLUS
Malhotra	1996			US 5500668	
Pavlin	1998			US 5777023	HCAPLUS
Pavlin	1999			US 5881648	HCAPLUS
Pearlstine	1996			US 5518534	HCAPLUS
Pontes	1997			US 5700316	HCAPLUS
Rezanka	1994			US 5371531	
Sacripante	1997			US 5667568	HCAPLUS
Sacripante	1997			US 5698017	HCAPLUS
Sakai	1997			US 5698128	
Schwarz	1989			US 4840674	HCAPLUS
Schwarz	1991			US 5006170	HCAPLUS
Schwarz	1992			US 5122187	HCAPLUS
Spehrley	1988			US 4751528	
Tobias	1994			US 5286288	HCAPLUS
Vaught	1984			US 4490731	

L65 ANSWER 19 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:378127 HCAPLUS

DN 133:18923

TI Low viscosity ink compns. for waterfast, quality, lightfast
 images on plain paper with improved projection efficiency

IN Breton, Marcel P.; Malhotra, Shadi L.; Wong, Raymond W.

PA Xerox Corp., USA

SO U.S., 13 pp.

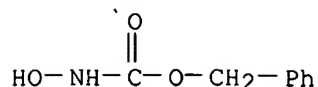
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6071333	A	20000606	US 1999-300333	19990427 <--
	US 6319310	B1	20011120	US 2000-575780	20000522 <--
PRAI	US 1999-281682	A2	19990330	<--	
	US 1999-300333	A2	19990427	<--	
	US 1999-362673	A2	19990729	<--	
AB	Title ink composition contains (1) a solid carbamate compound, (2) an alc. compound with a m.p. .apprx.25-90°, (3) a lightfastness component, (4) a lightfastness antioxidant, and (5) a colorant.				
IC	ICM C09D0011-00				
INCL	106031430				
CC	42-12 (Coatings, Inks, and Related Products)				
ST	acoustic jet printing phase change ink; ink jet printing acoustic nonaq ink; carbamate acoustic loss redn jet printing ink ; alc nonaq acoustic loss redn ink jet printing; lightfastness improver nonaq acoustic loss redn jet printing ink; hot melt ink jet printing				
IT	Inks (jet-printing, hot-melt; low viscosity compns. for waterfast, quality, lightfast images on plain paper with improved projection efficiency)				
IT	Antioxidants Light stabilizers (low viscosity compns. for waterfast, quality, lightfast images on plain paper with improved projection efficiency)				
IT	91-53-2 3401-73-8 7439-98-7D, Molybdenum, oxysulfide dithio carbamate derivs., uses 7440-36-0D, Antimony, dialkyl phosphorodithioate derivs., uses 16432-81-8, 2-(4-Benzoyl-3-hydroxyphenoxy)ethyl acrylate 30947-30-9 38916-42-6, AEROSOL 22N 71029-16-8, 1,1-(1,2-Ethane diyl) bis(3,3,5,5-tetramethyl piperazinone) 79720-19-7, 2-Dodecyl-N-(2,2,6,6- tetramethyl-4-piperidinyl)succinimide 91613-21-7, Mixxim HALS 63 122375-24-0 RL: MOA (Modifier or additive use); USES (Uses) (light stabilizers; low viscosity compns. for waterfast, quality, lightfast images on plain paper with improved projection efficiency)				
IT	128-04-1, Sodium dimethyl dithiocarbamate 142-59-6, Disodium ethylenebis-dithio carbamate 594-07-0D, Dithiocarbamic acid, molybdenum complexes 603-52-1, Ethyldiphenyl carbamate 621-84-1, Benzyl carbamate 672-99-1, 4-Bromo-3,5-dimethylphenyl N-methylcarbamate 1518-58-7, Diethylammonium diethyldithio carbamate 2114-18-3, 2-Chloroethyl carbamate 3426-71-9, Benzyl N-hydroxycarbamate 4248-19-5, tert-Butyl carbamate 17508-16-6, tert-Butyl-(2,4-dinitrophenoxy) carbamate 20624-25-3 21124-33-4 51026-28-9, Potassium N-hydroxy methyl-N-methyl-dithiocarbamate 61540-35-0, Cyanomethyl-N,N-dimethyl dithiocarbamate 85006-25-3, tert-Butyl-N-(tert-butoxycarbonyloxy) carbamate 87219-29-2, Benzyl(S)-(-)-tetrahydro-5-oxo-3-furanyl carbamate RL: MOA (Modifier or additive use); USES (Uses) (low viscosity compns. for waterfast, quality, lightfast images on plain paper with improved projection efficiency)				
IT	3426-71-9, Benzyl N-hydroxycarbamate RL: MOA (Modifier or additive use); USES (Uses) (low viscosity compns. for waterfast, quality, lightfast images on plain paper with improved projection efficiency)				
RN	3426-71-9 HCAPLUS				
CN	Carbamic acid, hydroxy-, phenylmethyl ester (9CI) (CA INDEX NAME)				



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Cooke	1991			US 5041161	HCAPLUS
Guiles	1988			US 4791439	
Hadimioglu	1992			US 5111220	
Hadimoglu	1992			US 5121141	
Ito	1997			US 5693126	HCAPLUS
Koike	1989			US 4853036	HCAPLUS
Koike	1992			US 5124718	HCAPLUS
Malhotra	1999			US 5897940	HCAPLUS
Ohta	1999			US 5954866	HCAPLUS
Pontes	1997			US 5700316	HCAPLUS
Rezanka	1994			US 5371531	
Sacripante	1997			US 5667568	HCAPLUS
Sacripante	1997			US 5698017	HCAPLUS
Sakai	1997			US 5698128	
Schwarz	1989			US 4840674	HCAPLUS
Schwarz	1991			US 5006170	HCAPLUS
Schwarz	1992			US 5122187	HCAPLUS
Spehrley	1988			US 4751528	
Vaught	1984			US 4490731	
Vieira	1992			US 5098477	HCAPLUS

L65 ANSWER 20 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:219037 HCAPLUS

DN 132:252618

TI Phase-change ink compositions, and acoustic ink
jet printing of quality fast-setting, waterfast and
 lightfast images on plain and coated papers

IN Breton, Marcel P.; Malhotra, Shadi L.; Wong, Raymond W.

PA Xerox Corp., USA

SO U.S., 13 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6045607	A	20000404	US 1999-281571	19990330 <--
PRAI	US 1999-281571		19990330	<--	

AB The title ink composition contains (1) a first solid carbamate, (2) a second carbamate with a dissimilar m.p. than in (1), (3) a lightfastness component, (4) a lightfastness antioxidant, and (5) a colorant. Thus, a black phase-change ink composition contained tert-Bu carbamate (m.p. 106°), Et N-methyl-N-phenylcarbamate, UV absorber 2-dodecyl-N-(2,2,6,6-tetramethyl-4-piperidiny) succinimide, antioxidant tetrasodium-N-(1,2-dicarboxyethyl)-N-octadecyl sulfosuccinamate, Aerosol 22N, and colorant Neozapon Black X 51.

IC ICM C09D0011-00

INCL 106031290

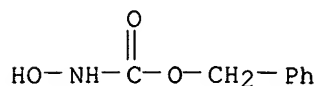
CC 42-12 (Coatings, Inks, and Related Products)

- ST acoustic **jet printing** phase change ink; hot melt **jet printing** ink; carbamate light stabilizer antioxidant colorant ink
- IT **Inks**
 (jet-printing, hot-melt; phase-change ink compns. for **printing** of quality fast-setting, waterfast and lightfast images on plain and coated papers)
- IT 4314-14-1, Sudan Yellow 146
 RL: TEM (Technical or engineered material use); USES (Uses)
 (Sudan Yellow 146; phase-change ink compns. for **printing** of quality fast-setting, waterfast and lightfast images on plain and coated papers)
- IT 91-53-2, 6-Ethoxy-1,2-dihydro-2,2,4-trimethylquinoline 16432-81-8, 2-(4-Benzoyl-3-hydroxyphenoxy)ethyl acrylate 65816-20-8 71029-16-8, 1,1-(1,2-Ethane-diyl) bis(3,3,5,5-tetramethyl)piperazinone 79720-19-7, 2-Dodecyl-N-(2,2,6,6-tetramethyl-4-piperidiny) succinimide 91613-20-6 91613-21-7, Mixxim HALS 63 106917-30-0, 2-Dodecyl-N-(1,2,2,6,6-pentamethyl-4-piperidiny)succinimide 106917-31-1, N-(1-Acetyl-2,2,6,6-tetramethyl-4-piperidiny)-2-dodecylsuccinimide
 RL: TEM (Technical or engineered material use); USES (Uses)
 (UV absorber; phase-change ink compns. for **printing** of quality fast-setting, waterfast and lightfast images on plain and coated papers)
- IT 7439-98-7D, Molybdenum, oxide sulfide dithiocarbamate derivs., uses 30947-30-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (antioxidant; phase-change ink compns. for **printing** of quality fast-setting, waterfast and lightfast images on plain and coated papers)
- IT 100-64-1, Cyclohexanone oxime 105-81-7, 1-Allyl-3-(2-hydroxyethyl)-2-thiourea 128-04-1, Sodium dimethyl dithiocarbamate 142-59-6, Disodium ethylenebis-dithio carbamate 148-18-5, Sodium diethyldithiocarbamate 603-52-1, Ethyldiphenyl carbamate 621-84-1, Benzyl carbamate 1192-28-5, Cyclopentanone oxime 1518-58-7, Diethylammonium diethyldithio carbamate 2114-18-3, 2-Chloroethyl carbamate 2621-79-6, Ethyl N-methyl-N-phenylcarbamate 2782-91-4, 1,1,3,3-Tetramethyl-2-thiourea 3426-71-9, Benzyl N-hydroxycarbamate 4248-19-5, tert-Butyl carbamate 6368-72-5, Sudan Red 462 7250-18-2, Benzyl-N,N-dimethyldithiocarbamate 10254-57-6 12237-22-8, Neozapon Black X51 17354-14-2, Sudan Blue 670 17508-16-6, tert-Butyl (2,4-dinitrophenoxy)carbamate 21124-33-4, Ammonium diethyldithiocarbamate 36016-38-3, tert-Butyl-N-hydroxycarbamate 38916-42-6, Aerosol 22N 51026-28-9, Potassium N-hydroxy methyl-N-methyl-dithiocarbamate 58885-58-8, tert-Butyl N-(3-hydroxypropyl)carbamate 61540-35-0, Cyanomethyl N,N-dimethyldithiocarbamate 75178-96-0, tert-Butyl N-(3-aminopropyl)carbamate 77987-49-6, Benzyl N-(2-hydroxyethyl)carbamate 78888-18-3, tert-Butyl N-allylcarbamate 79722-21-7, tert-Butyl N-(benzyloxy)carbamate 85006-25-3, tert-Butyl-N-(tert-butoxycarbonyloxy) carbamate 87219-29-2, Benzyl (S)-(-)-tetrahydro-5-oxo-3-furanyl carbamate 137160-76-0, Acetone O-(benzyloxy)carbonyl oxime 152855-09-9
 RL: TEM (Technical or engineered material use); USES (Uses)
 (phase-change ink compns. for **printing** of quality fast-setting, waterfast and lightfast images on plain and coated papers)
- IT 3426-71-9, Benzyl N-hydroxycarbamate 36016-38-3, tert-Butyl-N-hydroxycarbamate
 RL: TEM (Technical or engineered material use); USES (Uses)
 (phase-change ink compns. for **printing** of quality fast-setting, waterfast and lightfast images on plain and coated

papers)

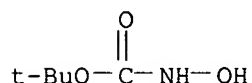
RN 3426-71-9 HCAPLUS

CN Carbamic acid, hydroxy-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 36016-38-3 HCAPLUS

CN Carbamic acid, hydroxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Cooke	1991			US 5041161	HCAPLUS
Guiles	1988			US 4791439	
Hadimioglu	1992			US 5111220	
Hadimioglu	1992			US 5121141	
Koike	1989			US 4853036	HCAPLUS
Koike	1992			US 5124718	HCAPLUS
Pontes	1997			US 5700316	HCAPLUS
Rezanka	1994			US 5371531	
Sacripante	1997			US 5667568	HCAPLUS
Sacripante	1997			US 5698017	HCAPLUS
Sakai	1997			US 5698128	
Schwarz	1989			US 4840674	HCAPLUS
Schwarz	1991			US 5006170	HCAPLUS
Schwarz	1992			US 5122187	HCAPLUS
Spehrley	1988			US 4751528	
Vaught	1984			US 4490731	

L65 ANSWER 21 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:343717 HCAPLUS

DN 130:359228

TI Aqueous formulation useful as antioxidant in photographic processing solution

IN Odenwaelder, Heinrich; Huebsch, Thomas; Scholkmann, Angelika; Dovecar, Frank

PA Agfa-Gevaert A.-G., Germany

SO Ger. Offen., 12 pp.

CODEN: GWXXBX

DT Patent

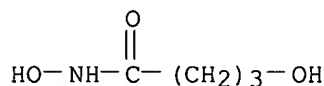
LA German

FAN.CNT 1

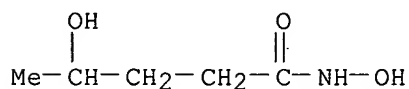
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19751945	A1	19990527	DE 1997-19751945	19971124 <--
	EP 918252	A1	19990526	EP 1998-121659	19981112 <--
	EP 918252	B1	20020213		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

JP 11228956 A 19990824 JP 1998-329483 19981119 <--
 PRAI DE 1997-19751945 A 19971124 <--
 OS MARPAT 130:359228
 AB The aqueous formulation contains at least 20 % of a water-soluble compound represented by $\text{HOR1CH}(\text{CR2R3})_n\text{CONR4OH}$ [$\text{R1} = \text{H, alkyl}$; $\text{R2} = \text{H, alkyl, OH}$; $\text{R3} = \text{H, alkyl}$; $\text{R4} = \text{H, alkyl}$; $n = 1-4$]. The formulation shows very good stability.
 IC ICM G03C0005-305
 ICS G03C0007-407
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 IT **31198-49-9P**
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (in aqueous formulation useful as antioxidant in photog. processing solution)
 IT **224791-47-3**
 RL: TEM (Technical or engineered material use); USES (Uses)
 (in aqueous formulation useful as antioxidant in photog. processing solution)
 IT **31198-49-9P**
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (in aqueous formulation useful as antioxidant in photog. processing solution)
 RN 31198-49-9 HCAPLUS
 CN Butanamide, N,4-dihydroxy- (9CI) (CA INDEX NAME)



IT **224791-47-3**
 RL: TEM (Technical or engineered material use); USES (Uses)
 (in aqueous formulation useful as antioxidant in photog. processing solution)
 RN 224791-47-3 HCAPLUS
 CN Pentanamide, N,4-dihydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 22 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1998:58813 HCAPLUS
 DN 128:129292
 TI **Ink-jet inks and printing**
 processes-at-high speed with microwave drying with reduced curling
 IN Malhotra, Shadi L.; Naik, Kirit N.; MacKinnon, David N.; Mayo, James D.; Gagnon, Yvan; Goodbrand, H. Bruce
 PA Xerox Corp., USA
 SO U.S., 34 pp.
 CODEN: USXXAM
 DT **Patent**
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5709737	A	19980120	US 1996-603516	19960220 <--
PRAI	US 1996-603516		19960220	<--	

OS MARPAT 128:129292

AB The title **inks** comprise an aqueous liquid vehicle, a colorant, and an additive selected from sym. acetylenic bisester alcs.; sym. acetylenic bisalkyl alcs. and acetylenic bisalkoxy alcs.; sym. acetylenic bisamido alcs.; sym. bisamido alcs.; mono amido alcs.; trialkylhydroxy compds.; derivs. of 1,2-diols and 1,3-diols; thio diols; aromatic diols; heterocyclic diols; imino alcs.; salts of hydroxyl compds.; saccharides and saccharide derivs.; and mixts. thereof. Cyan, magenta, and yellow **ink** compns. containing pantothenol [20% pantothenol, 80% stock compns. (preparation given)] were prepared by simple mixing of the ingredients. The **inks** thus prepared were incorporated into a 300 spots per in. resolution Hewlett Packard 560C **inkjet printer** and images were generated on paper. All papers yielded hanging curl values of within ± 5 mm of 50 min, indicating that when **prints** are made on paper with **ink** compns. containing such additive, paper curl was in most cases independent of the particular paper used and the colorant of the **ink**.

IC ICM C09D0011-02

INCL 106031430

CC 42-12 (Coatings, Inks, and Related Products)

ST **jet printing ink** additive curl prevention;
pantothenol **jet printing ink**; alc additive
jet printing ink

IT Alcohols, uses

RL: MOA (Modifier or additive use); USES (Uses)
(acetylenic; **ink-jet inks** and
printing processes at high speed with microwave drying with
reduced curling)

IT Alcohols, uses

RL: MOA (Modifier or additive use); USES (Uses)
(alkoxy; **ink-jet inks** and
printing processes at high speed with microwave drying with
reduced curling)

IT Amides, uses

RL: MOA (Modifier or additive use); USES (Uses)
(hydroxy; **ink-jet inks** and
printing processes at high speed with microwave drying with
reduced curling)

IT **Ink-jet printing**

(**ink-jet inks** and **printing**
processes at high speed with microwave drying with reduced curling)

IT Alcohols, uses

Carbohydrates, uses

Glycols, uses

Monosaccharides

Polysaccharides, uses

RL: MOA (Modifier or additive use); USES (Uses)

(**ink-jet inks** and **printing**
processes at high speed with microwave drying with reduced curling)

IT **Inks**

(**jet-printing; ink-jet**
inks and **printing** processes at high speed with
microwave drying with reduced curling)

IT Carboxylic acids, uses

RL: MOA (Modifier or additive use); USES (Uses)

(salts; ink-jet inks and printing processes at high speed with microwave drying with reduced curling)

IT 50-81-7, L-Ascorbic acid, uses 52-51-7, 2-Bromo-2-nitro-1,3-propanediol
 59-47-2, 3-(2-Methyl phenoxy)-1,2-propanediol 60-23-1,
 2-Aminoethanethiol 76-37-9, 2,2,3,3-Tetrafluoro-1-propanol 81-13-0,
 Pantothenol 90-01-7, 2-Hydroxybenzyl alcohol 90-80-2,
 8-Gluconolactone 93-56-1, 1-Phenyl-1,2-ethanediol; 94-72-4
 100-51-6, Benzyl alcohol, uses 102-60-3, N,N,N',N'-Tetrakis(2-
 hydroxypropyl)ethylenediamine 102-71-6, uses 105-59-9,
 2,2'-Methyliminodiethanol 108-01-0 110-65-6, 2-Butyne-1,4-diol
 110-97-4, Bis(2-hydroxypropyl)amine 111-41-1 111-48-8,
 2,2'-Thiodiethanol 120-07-0, 2,2'(Phenylamino)diethanol 122-96-3,
 1-4-Bis(2-hydroxyethyl)piperazine 124-68-5, 2-Amino-2-methyl-1-propanol
 126-11-4 137-08-6, Pantothenic acid calcium salt 141-43-5, uses
 142-30-3, 2,5-Dimethyl-3-hexyne-2,5-diol 153-18-4 371-40-4,
 4-Fluoroaniline 372-48-5, 2-Fluoropyridine 375-82-6,
 1H,1H,-Perfluoro-1-heptanol 422-05-9, 2,2,3,3,3-Pentafluoropropanol
 459-56-3, 4-Fluorobenzyl alcohol 476-66-4 498-00-0,
 4-Hydroxy-3-methoxy benzylalcohol 538-43-2, 3-Phenoxy-1,2-propanediol
 616-30-8, 3-Amino-1,2-propanediol 621-56-7, 3-(Diethylamino)-1,2-
 propanediol 623-39-2, 3-Methoxy-1,2-propanediol 647-42-7 839-90-7
 867-81-2 920-66-1 1198-69-2 1606-85-5, 1,4-Bis(2-hydroxyethoxy)-2-
 butyne 1707-77-3 1874-62-0, 3-Ethoxy-1,2-propanediol 1883-75-6,
 2,5-Furandimethanol 2160-94-3, 3-Cyclohexene-1,1-dimethanol
 2292-53-7, Mandelo hydroxamic acid 2380-78-1, Homovanillyl
 alcohol 2580-77-0, 2,2'-Sulfonyl diethanol 3031-66-1,
 3-Hexyne-2,5-diol 3068-00-6, 1,2,4-Butanetriol 3077-12-1 3197-06-6,
 N,N-Bis(2-hydroxyethyl)ethylenediamine 3569-99-1, N-
 (Hydroxymethyl)nicotinamide 3768-41-0 3969-84-4, 3,4-O-Isopropylidene-
 D-mannitol 4217-66-7, 2-Phenyl-1,2-propanediol 4383-06-6,
 3-Hydroxy-4-methoxybenzylalcohol 4439-20-7, N,N'-Bis(2-
 hydroxyethyl)ethylenediamine 4847-93-2, 3-Piperidino-1,2-propanediol
 4985-85-7, N-(3-Aminopropyl)diethanolamine 5244-34-8,
 3,6-Dithia-1,8-octane diol 5704-04-1, N-[Tris(hydroxymethyl)methyl]glyci-
 ne 5714-31-8, N,N'-Bis[(trishydroxymethyl)methyl]oxamide 5950-69-6,
 Hydrindantin dihydrate 6147-31-5, Melezitose dihydrate 6265-74-3
 6284-40-8, N-Methyl-D-glucamine 6339-21-5 6425-32-7,
 3-Morpholino-1,2-propanediol 6704-15-0, Bis(2-hydroxypropyl sulfide
 6712-98-7 6968-62-3, α,β -Glucosuccinic γ -lactone
 7522-62-5 7672-76-6, 1,4-Bis(2-hydroxypropyl)piperazine 7768-28-7,
 2-Hydroxyphenethyl alcohol 9005-80-5, Inulin 10094-58-3 10191-18-1,
 N,N-Bis(2-hydroxyethyl)-2-amino ethane sulfonic acid 10234-40-9
 10353-86-3 10595-09-2, 3,3'-Thiodipropanol 13224-99-2 13349-82-1,
 1-[2(2-Hydroxyethoxy)ethyl]-piperazine 13880-05-2 14002-33-6,
 Bis(3-hydroxypropyl)amine 14002-34-7, Tripropanolamine 14258-43-6
 14690-00-7, 2-Benzoyloxy-1,3-propanediol 15042-01-0, 5,6-Isopropylidene
 ascorbic acid 16369-05-4, 2-Amino-3-methyl-1-butanol 17131-52-1,
 3-(4-Methoxy phenoxy)-1,2-propane diol 17629-30-0, Raffinose
 pentahydrate 18073-84-2 18549-40-1 19184-65-7 19970-80-0
 20031-21-4 24207-38-3, N-(2-Hydroxyethyl)salicylamide 28132-01-6,
 4-8-Bis(hydroxymethyl)tricyclo[5.2.1.0^{2,6}]decane 29654-55-5,
 3,5-Dihydroxybenzylalcohol 29747-91-9 29883-15-6, Amygdalin
 33950-46-8 36566-49-1, 2,5-O-Methylene-D-mannitol 36842-44-1,
 5-Hexene-1,2-diol 36936-60-4, Ethoxylated Triethanolamine 42589-21-9,
 Bis(2-hydroxypropyl)disulfide 51673-59-7, 1-(2-Nitrophenyl)-1,2-
 ethanediol 53503-90-5 60046-25-5 60278-98-0 61969-53-7
 64431-96-5, 1,3-Bis-[tris(hydroxymethyl)methylamino]propane 68399-80-4
 70753-61-6 70892-82-9, N,N-Bis(2-hydroxyethyl)isonicotinamide
 71176-55-1 74440-84-9, Xylonic acid calcium salt 85391-19-1,
 3-Pyrrolidino-1,2-propanediol 85721-30-8 85866-02-0, 7-Octene-1,2-diol

116747-79-6, 4-Amino-4-(3-hydroxypropyl)-1,7-heptanediol 116747-80-9
 143239-14-9 143239-19-4 201986-62-1 201986-63-2 201986-64-3
 201986-65-4 201986-66-5 201986-67-6 201986-68-7 201986-69-8
 201986-70-1 201986-71-2

RL: MOA (Modifier or additive use); USES (Uses)

(ink-jet inks and printing

processes at high speed with microwave drying with reduced curling)

IT 2292-53-7, Mandelo hydroxamic acid

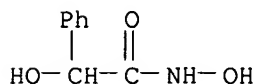
RL: MOA (Modifier or additive use); USES (Uses)

(ink-jet inks and printing

processes at high speed with microwave drying with reduced curling)

RN 2292-53-7 HCAPLUS

CN Benzeneacetamide, N, α -dihydroxy- (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Adamic	1991			US 5062893	HCAPLUS
Adamic	1995			US 5431724	HCAPLUS
Anon	1997			CAS data sheet	
Carreira	1993			US 5220346	
Chan	1993			US 5268027	HCAPLUS
Davulcu	1995			US 5389132	HCAPLUS
Hickman	1994			US 5356464	HCAPLUS
Koike	1991			US 5053078	HCAPLUS
Moffatt	1993			US 5207824	HCAPLUS
Nagai	1995			US 5431720	HCAPLUS
Nakazawa	1995			US 5397386	HCAPLUS
Pontes	1992			US 5100469	HCAPLUS
Prasad	1993			US 5196056	HCAPLUS
Sano	1994			US 5324349	HCAPLUS
Schellenbaum	1976			US 3991124	HCAPLUS
Schwarz	1993			US 5223026	HCAPLUS
Shimomura	1994			US 5354369	HCAPLUS
Tochihara	1995			US 5395434	HCAPLUS
Winnik	1992			US 5120361	HCAPLUS
Yamashita	1994			US 5370731	HCAPLUS
Yow	1992			US 5169437	HCAPLUS

L65 ANSWER 23 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:557489 HCAPLUS

DN 127:235835

TI **Jet ink** compositions giving lightfast color images

IN Morimoto, Hitoshi; Oya, Hidenobu; Onodera, Akira; Ishibashi, Daisuke;
 Ninomya, Hidetaka

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 32 pp.

CODEN: JKXXAF

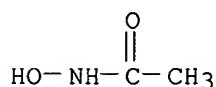
DT Patent

LA Japanese

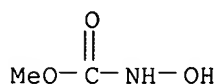
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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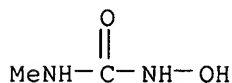
PI JP 09217033 A 19970819 JP 1996-22448 19960208 <--
 JP 3713786 B2 20051109
 PRAI JP 1996-22448 19960208 <--
 OS MARPAT 127:235835
 AB The title compns. contain colorants and (R1R2NOH)nMm (R1, R2 = H, alkyl, alkoxy, alkoxycarbonyl, carbamoyl, acyl; n = 1-3; m = 0-2; M = counter salt), e.g., HON(CH2CH2SO3Na)2.
 IC ICM C09D0011-00
 ICS C09D0011-00; D06P0005-00
 CC 42-12 (Coatings, Inks, and Related Products)
 ST lightfast color ink hydroxylamine salt
 IT Dyes
 (jet ink compns. giving lightfast color images)
 IT Inks
 (jet-printing; jet ink compns. giving lightfast color images)
 IT 3214-47-9 17791-81-0 71850-83-4 77980-57-5 116902-66-0
 189332-30-7 192719-95-2 195007-36-4 195007-37-5 195007-40-0
 195007-41-1 195007-42-2 195007-43-3 195007-44-4 195007-45-5
 195007-46-6 195007-47-7 195007-48-8 195007-49-9 195007-50-2
 195124-20-0 195124-21-1 195124-22-2 195124-23-3 195161-86-5
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dye; jet ink compns. giving lightfast color images)
 IT 546-88-3 584-07-6 621-07-8 3710-84-7
 7433-46-7 10039-54-0 23873-38-3 89531-79-3 95073-63-5
 98021-05-7 108203-25-4 112275-83-9 133986-51-3 145151-32-2
 170155-24-5 172527-85-4 195007-28-4 195007-29-5 195007-30-8
 195007-31-9 195007-32-0 195007-33-1
 RL: MOA (Modifier or additive use); USES (Uses)
 (jet ink compns. giving lightfast color images)
 IT 546-88-3 584-07-6 7433-46-7
 RL: MOA (Modifier or additive use); USES (Uses)
 (jet ink compns. giving lightfast color images)
 RN 546-88-3 HCAPLUS
 CN Acetamide, N-hydroxy- (9CI) (CA INDEX NAME)



RN 584-07-6 HCAPLUS
 CN Carbamic acid, hydroxy-, methyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)

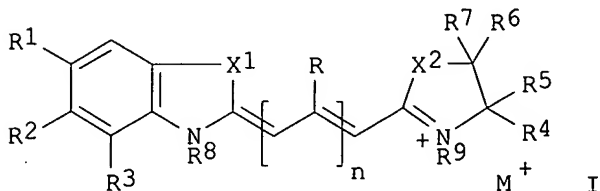


RN 7433-46-7 HCAPLUS
 CN Urea, N-hydroxy-N'-methyl- (9CI) (CA INDEX NAME)



L65 ANSWER 24 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1995:774607 HCAPLUS
 DN 123:172638
 TI Cyanine dyes and photographic recording materials.
 IN Missfeldt, Michael
 PA Agfa-Gevaert A.-G., Germany
 SO Eur. Pat. Appl., 35 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 648813	A1	19950419	EP 1994-115470	19940930 <--
	EP 648813	B1	19990428		
	R: CH, DE, FR, GB, IT, LI, NL				
	DE 4416308	A1	19950420	DE 1994-4416308	19940509 <--
	US 5512428	A	19960430	US 1994-314592	19940928 <--
	JP 07224229	A	19950822	JP 1994-270435	19941007 <--
PRAI	DE 1993-4334787	A	19931013	<--	
	DE 1993-4342617	A	19931214	<--	
OS	MARPAT 123:172638				
GI					



AB The dyes (I; R1R2 or R2R3 = optionally substituted phenanthrazole or anthrazole ring with R3 or R1 = H; R4 and R6 H or together a π bond; R5 and R7 = H, alkyl, aryl or R4, R5, R6, R7 together form an optionally substituted benzazole, naphthazole, phenanthrazole, or anthrazole ring; R8, R9 = organic group; X1, X2 = O, S, Se, imino; n = 0, 1; M+ = cation) are obtained for use for photog. spectral sensitizers. In an example, 5'-chloro-9-ethyl-3,3'-bis(3-sulfopropyl)benzothiaphenanthro[1,2-d]oxazole carbocyanine is obtained and used in a silver bromide emulsion.

IC ICM C09B0023-02
 ICS C09B0023-04; C09B0023-06; G03C0001-14; G03C0001-16; G03C0001-18

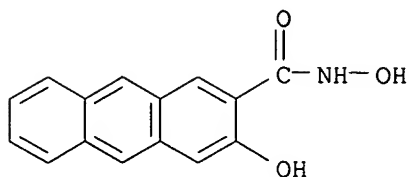
CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
 Section cross-reference(s): 74

IT 64506-24-7P 167307-48-4P 167307-49-5P 167307-54-2P
 167307-57-5P 167307-59-7P, Anthra[2,3-d]oxazol-2(3H)-one
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; cyanine dyes for photog. spectral sensitizers)

IT 167307-57-5P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; cyanine dyes for photog. spectral sensitizers)

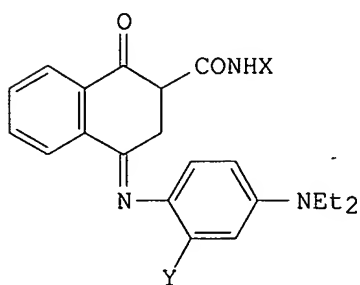
RN 167307-57-5 HCAPLUS

CN 2-Anthracenecarboxamide, N,3-dihydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 25 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1991:104356 HCAPLUS
 DN 114:104356
 TI Cyan dyes for use in thermal dye sublimation transfer
 IN Vanmaele, Luc Jerome; Janssens, Wilhelmus
 PA **Agfa-Gevaert N. V., Belg.**
 SO Eur. Pat. Appl., 12 pp.
 CODEN: EPXXDW
 DT **Patent**
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 393252	A1	19901024	EP 1989-201001	19890419 <--
	EP 393252	B1	19931208		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	US 5082823	A	19920121	US 1990-509220	19900416 <--
	JP 02295791	A	19901206	JP 1990-102779	19900417 <--
PRAI	EP 1989-201001	A	19890419	<--	
OS	MARPAT 114:104356				
GI					



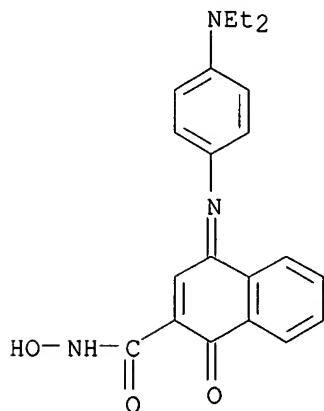
I

AB The title dyes include 2-carbazoyl-4-[N-(p-substituted aminoaryl)imino]-1,4-quinone or 2-hydroxyaminocarbonyl-4-[N-(p-substituted aminoaryl)imino]-1,4-quinone. Thus, a dye-donating layer, prepared from a C2H4Cl2 solution of nitrocellulose and I (X = 4-NHSO2C6H4Me, Y = H), prepared from 4-NH2NHSO2C6H4Me, Ph 1-naphthol-2-carboxylate, and N,N-diethyl-p-phenylenediamine), gave images showing maximum color d. 1.83 with 6% loss after 30 h under **light**.

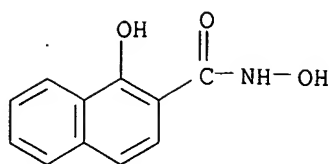
IC ICM B41M0005-26
 ICS C09B0053-02

CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
 Section cross-reference(s): 42

- IT Dyes
(carbazoyl- or hydroxyaminocarbonyl(aminoaryl)iminoquinones, manufacture of cyan, for thermal-transfer **printing**, **light**-resistant)
- IT **Printing**, nonimpact
(thermal-transfer, cyan dyes for, carbazoyl- or hydroxyaminocarbonyl(aminoaryl)iminoquinones as, **light**-resistant)
- IT 108-05-4D, Acetic acid ethenyl ester, polymers with vinyl alc. and vinyl butyral 557-75-5D, Ethenol, polymers with vinyl butyral and vinyl acetate 9004-35-7, Cellulose acetate 9004-70-0, Nitrocellulose
RL: USES (Uses)
(binder, for thermal-transfer **printing**)
- IT 132445-92-2 132445-93-3 132445-94-4 **132445-95-5**
132445-96-6
RL: MSC (Miscellaneous)
(dyes, manufacture of **light**-resistant, for thermal-transfer **printing**)
- IT **32863-40-4P** 132445-91-1P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(manufacture and oxidative coupling of, with diamines, for cyan dyes)
- IT **132445-95-5**
RL: MSC (Miscellaneous)
(dyes, manufacture of **light**-resistant, for thermal-transfer **printing**)
- RN 132445-95-5 HCAPLUS
CN 2-Naphthalenecarboxamide, 4-[[4-(diethylamino)phenyl]imino]-1,4-dihydro-N-hydroxy-1-oxo- (9CI) (CA INDEX NAME)



- IT **32863-40-4P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(manufacture and oxidative coupling of, with diamines, for cyan dyes)
- RN 32863-40-4 HCAPLUS
CN 2-Naphthalenecarboxamide, N,1-dihydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 26 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1981:452628 HCAPLUS

DN 95:52628

TI Stabilizing color photographic materials

IN Schranz, Karl Wilhelm; Sobel, Johannes

PA Agfa-Gevaert A.-G., Fed. Rep. Ger.

SO Ger. Offen., 30 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2936410	A1	19810326	DE 1979-2936410	19790908 <--
	US 4339515	A	19820713	US 1980-184034	19800904 <--
	GB 2059091	A	19810415	GB 1980-28774	19800905 <--
	GB 2059091	B	19830407		
PRAI	DE 1979-2936410	A	19790908	<--	

OS MARPAT 95:52628

AB The fading of image dyes in color photographs can be hindered by treatment of the developed and processed photog. material in a stabilization bath containing a 5% aqueous solution of R1R2NCONROH, HONRCONR3ZNR4CONROH, or

R5CONROH (R, R1, R3, R4 = H, alkyl; R2, R5 = alkyl, cycloalkyl, aralkyl, aryl; and R1R2 together and/or Z together with R3 or R4 can form a heterocycle) or incorporating these compds. at 100-2000 mg/m2 in the color photog. material. Thus, a color photog. material was exposed, processed, and then treated in a bath containing a 5% aqueous solution of iso-PrNHCONHOH (50 g/L).

The

finished material was then exposed at 4.8 + 106 lx-h in a Xe test apparatus at 60% relative humidity and 20° to show a decrease in the yellow, magenta, and cyan ds. of 28, 33, and 22%, resp., vs. 55, 62, and 34%, resp., for an untreated control.

IC G03C0007-30

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

Section cross-reference(s): 23, 25, 27, 28

ST hydroxamide light stabilizer color photograph

IT Light stabilizers

(UV, hydroxamides as, for color photog. dye images)

IT Photographs

(color, hydroxamides as light stabilizers for dye images in)

IT 52253-30-2 54711-43-2 54711-44-3

60165-07-3 78322-22-2 78322-23-3

RL: USES (Uses)

(light stabilizer, for dye images in color photographs)

IT 127-07-1D, derivs. 4312-87-2D, derivs.

RL: USES (Uses)

(light stabilizers, for dye images in color photographs)

IT 52253-30-2 54711-43-2 54711-44-3

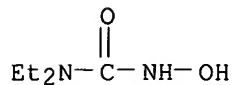
60165-07-3 78322-22-2 78322-23-3

RL: USES (Uses)

(light stabilizer, for dye images in color photographs)

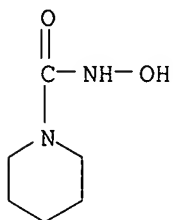
RN 52253-30-2 HCAPLUS

CN Urea, N,N-diethyl-N'-hydroxy- (9CI) (CA INDEX NAME)



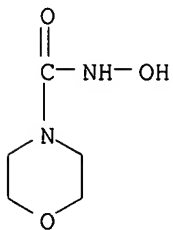
RN 54711-43-2 HCAPLUS

CN 1-Piperidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



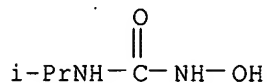
RN 54711-44-3 HCAPLUS

CN 4-Morpholinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



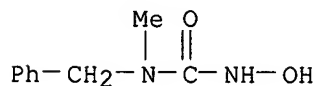
RN 60165-07-3 HCAPLUS

CN Urea, N-hydroxy-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



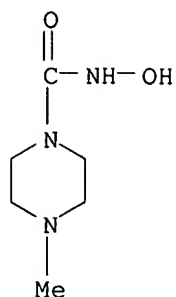
RN 78322-22-2 HCAPLUS

CN Urea, N'-hydroxy-N-methyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

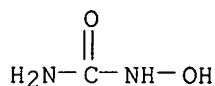


RN 78322-23-3 HCAPLUS

CN 1-Piperazinecarboxamide, N-hydroxy-4-methyl- (9CI) (CA INDEX NAME)



IT 127-07-1D, derivs.
 RL: USES (Uses)
 (light stabilizers, for dye images in color photographs)
 RN 127-07-1 HCAPLUS
 CN Urea, hydroxy- (6CI, 8CI, 9CI) (CA INDEX NAME)



L65 ANSWER 27 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1981:217553 HCAPLUS

DN 94:217553

TI Antifading agents for color photographic images

IN Sobel, Johannes; Schranz, Karl Wilhelm

PA Agfa-Gevaert A.-G., Fed. Rep. Ger.

SO Ger. Offen., 29 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2936429	A1	19810402	DE 1979-2936429	19790908 <--
	US 4330606	A	19820518	US 1980-184035	19800904 <--
	GB 2059092	A	19810415	GB 1980-28775	19800905 <--
	GB 2059092	B	19830706		
	JP 56046224	A	19810427	JP 1980-122467	19800905 <--
PRAI	DE 1979-2936429	A	19790908	<--	

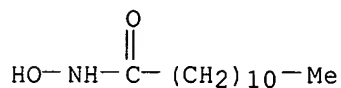
OS MARPAT 94:217553

AB As essentially nondiffusing, colorless, water- and alkali-insol. antifading agents for indophenol, indoaniline, or azomethine dyes in color photog. materials, compds. containing 1 or 2 CONROH groups (R = H or alkyl) attached to an alkyl, aralkyl, aroxy, or amino group are used at 300-800 mg/m² of processed film or paper. They may be introduced as dispersion in aqueous gelatin with the coupler at 50-100% and used in combination with UV absorbers. Thus, by using OC(OEt)₂ as solvent, a solution containing a magenta color former 50 and bis(2-ethylhexyl) sulfosuccinate 5 g was combined with a solution containing 50 g each of C₁₂H₂₅NHCON(Me)OH (I) and of

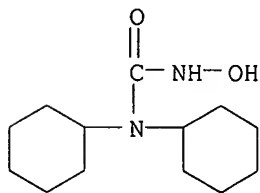
an oil former, and with a 30% MeOH solution of C₁₈H₃₅CH(CH₂CO₂K)COH 85 g. The mixture was dispersed at 50° in a 10% aqueous gelatin solution 1 L, the solvents removed by evaporation, and the dispersion stored at 4°. It

was added to the green-sensitive 4 μ Ag(Cl,Br) emulsion layer of a tricolor paper, which also had a 4 μ UV absorber coating 700 mg/m². After imagewise exposure and processing, a spot having a d. of 0.7 was exposed to 7.5 + 106 lx/h to daylight at 60% relative humidity. The d. decrease amounted to 27% vs. 75% for the I-free control.

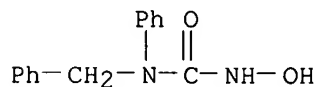
IC G03C0007-26
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)
 IT **Light stabilizers**
 (for color photographs)
 IT 10335-68-9 41505-58-2 77837-29-7 77837-30-0
 77837-31-1 77837-32-2 77839-25-9
 RL: USES (Uses)
 (antifading agent, for color photographs)
 IT 10335-68-9 77837-29-7 77837-30-0
 77837-31-1 77837-32-2 77839-25-9
 RL: USES (Uses)
 (antifading agent, for color photographs)
 RN 10335-68-9 HCAPLUS
 CN Dodecanamide, N-hydroxy- (9CI) (CA INDEX NAME)



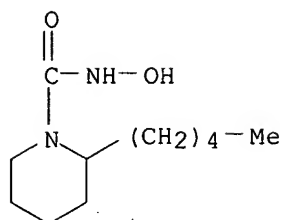
RN 77837-29-7 HCAPLUS
 CN Urea, N,N-dicyclohexyl-N'-hydroxy- (9CI) (CA INDEX NAME)



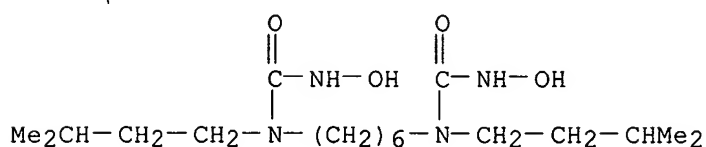
RN 77837-30-0 HCAPLUS
 CN Urea, N'-hydroxy-N-phenyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



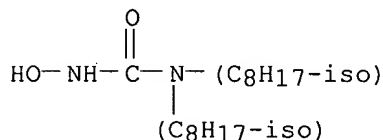
RN 77837-31-1 HCAPLUS
 CN 1-Piperidinecarboxamide, N-hydroxy-2-pentyl- (9CI) (CA INDEX NAME)



RN 77837-32-2 HCAPLUS
 CN Urea, N,N''-1,6-hexanediyldis[N'-hydroxy-N-(3-methylbutyl)- (9CI) (CA INDEX NAME)



RN 77839-25-9 HCAPLUS
 CN Urea, N'-hydroxy-N,N-diisooctyl- (9CI) (CA INDEX NAME)



L65 ANSWER 28 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1979:160078 HCAPLUS
 DN 90:160078
 TI The use of N-hydroxyurea silver halide developing agents in silver complex diffusion transfer processes (DTR-processes)
 CS **Agfa-Gevaert N. V., Belg.**
 SO Research Disclosure (1979), 179, 115 (No. 17920)
 CODEN: RSDSBB; ISSN: 0374-4353
 DT Journal; Patent
 LA English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 179020		19790310		
RD 1979-179020		19790310		

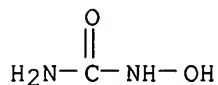
PI RD 179020
 PRAI RD 1979-179020 19790310
 AB N-hydroxyurea derivs. having the formula, R₁R₂NCONHOH (R₁, R₂ = H, C1-4 alkyl, cycloalkyl, aryl, or R₁R₂ together form a ring), are described for use as developing agents in DTR-materials without causing yellowing of these materials on storage. These developing agents can be present in the Ag halide emulsion layer or in a layer adjacent thereto and from which they can reach the emulsion layer by diffusion.
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)
 IT 127-07-1D, derivs.
 RL: USES (Uses)
 (as developing agents for diffusion-transfer photog. materials)
 IT 127-07-1D, derivs.

RL: USES (Uses)

(as developing agents for diffusion-transfer photog. materials)

RN 127-07-1 HCAPLUS

CN Urea, hydroxy- (6CI, 8CI, 9CI) (CA INDEX NAME)



L65 ANSWER 29 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1979:64523 HCAPLUS

DN 90:64523

TI Photosensitive tellurium materials

IN Vuyts, Julius Leon; Heugebaert, Frans Clement; Janssens, Wilhelmus

PA Agfa-Gevaert A.-G., Fed. Rep. Ger.

SO Ger. Offen., 24 pp.

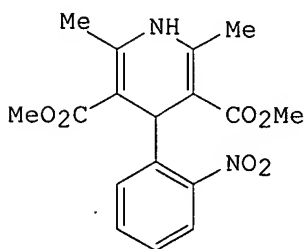
CODEN: GWXXBX

DT Patent

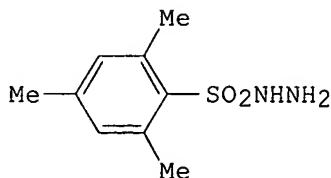
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2808010	A1	19780907	DE 1978-2808010	19780224 <--
	GB 1591753	A	19810624	GB 1977-8760	19770302 <--
	FR 2382710	A1	19780929	FR 1977-14164	19770506 <--
	FR 2382710	B1	19800208		
	JP 53109621	A	19780925	JP 1978-23423	19780228 <--
	US 4148659	A	19790410	US 1978-882044	19780228 <--
PRAI	GB 1977-8760	A	19770302	<--	
GI					



I

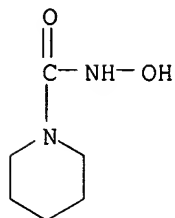


II

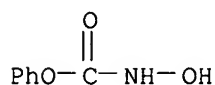
AB In Ger. 2,436,132 (Ca 84: 10935g) neg. images are produced by imagewise exposure of an organotellurium compound, such as (PhCOCH₂)₂TeCl₂, and a photoreductant in a binder and heating the product. Direct pos. images are obtained by use of TeCl₄ or such an organotellurium compound 1-10 g/m² in combination with greater than equimolar amts. of a photooxidant, such as 4-(2'-nitrophenyl)-1,4-dihydropyridine (US 3,901,710; Ger. 2,242,106; Ca 81: 56670h), and an organic reductant or reductant precursor which is activated >60% (sulfonylhydrazides or acylhydroxylamines). The photooxidant inactivates the reductant imagewise during the exposure for the development by reduction at 80 - 200° for 30 - 600 s. Thus, a solution of (PhCOCH₂)₂TeCl₂ 1.5 g, I 1.6, and II 1.1 in 40 mL of a 1:1 mixture of CH₂Cl₂ and THF was mixed with 50 g of a 20% solution of a 91:3:6 terpolymer of vinyl chloride-vinyl acetate-vinyl alc. in MeCOEt and with a

2% silicone oil solution in CH₂Cl₂ 1 mL as coating aid. Coated on a polyester film at 2 g/m² Te compds., the mixture was dried 4 h at 30°, 18 h at 45°, exposed 100 s to a 2 kW lamp, and developed 1 min at 160°.

IC G03C0001-72
 CC 74-8 (Radiation Chemistry, Photochemistry, and Photographic Processes)
 IT 2655-47-2 16182-15-3 21829-25-4 22609-71-8 **54711-43-2**
 RL: USES (Uses)
 (photothermog. copying composition containing organotellurium compound and)
 IT 80-17-1P 6391-96-4P 10393-86-9P 31803-69-7P **38064-07-2P**
 68716-12-1P 68716-13-2P 68961-79-5P 68961-80-8P 68961-81-9P
 68961-82-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 IT **54711-43-2**
 RL: USES (Uses)
 (photothermog. copying composition containing organotellurium compound and)
 RN 54711-43-2 HCAPLUS
 CN 1-Piperidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



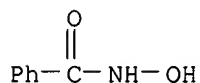
IT **38064-07-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 38064-07-2 HCAPLUS
 CN Carbamic acid, hydroxy-, phenyl ester (6CI, 9CI) (CA INDEX NAME)



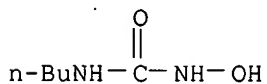
L65 ANSWER 30 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1975:118201 HCAPLUS
 DN 82:118201
 TI Heat-sensitive materials and their use in **recording** processes
 IN Laridon, Urbain L.; Poot, Albert L.; Willems, Jozef F.
 PA **Agfa-Gevaert A.-G.**
 SO Ger. Offen., 21 pp.
 CODEN: GWXXBX
 DT **Patent**
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2415603	A1	19741024	DE 1974-2415603	19740330 <--
	CA 1020347	A1	19771108	CA 1974-195123	19740315 <--
	BE 812933	A2	19740930	BE 1974-1005835	19740328 <--

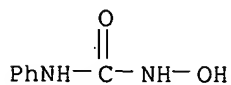
FR 2224309 A1 19741031 FR 1974-11925 19740329 <--
 JP 50036143 A 19750405 JP 1974-37279 19740401 <--
 US 3996397 A 19761207 US 1974-457547 19740403 <--
 US 457547 I5 19760217
 US 30107 E 19791002 US 1978-925962 19780718 <--
 PRAI GB 1973-16166 A 19730404 <--
 GB 1973-29073 A 19730619 <--
 US 1974-457547 A 19740403 <--
 AB A Ag salt of a C>13 carboxylic acid, such as Ag behenate, or one with a thioether group (Brit. 1,111,492; Ger. 1,214,083; CA 64: 18779a) is combined with a compound having a -CONHOH group, which reduces the Ag salt at >60°, in a film-forming binder. The layer may also contain a sterically hindered phenol as an auxiliary reducing agent and a phthalazinone or phthalimide as a toning agent, to form sharp copies of high contrast. Thus, Ag behenate 2.5 g was ball-milled for 16 hr with chlorinated poly(vinyl chloride) 5 g in EtCOME 50 ml. A 100μ polyester support was coated with 75μ (wet) of a mixture of 3 ml of the dispersion with 3 ml EtCOME containing PhNHCONHOH 20 mg and phthalazinone 10 mg, dried for 5 min at 60°, exposed with a **printed** original in a Thermofax copier to yield a black copy.
 IC B41M
 CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic Processes)
 IT 495-18-1 5681-57-2 7335-35-5 41505-58-2
 54711-43-2
 RL: USES (Uses)
 (heat-sensitive compns. containing silver carboxylates and, for thermog.)
 IT 54711-44-3P 54711-45-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 IT 495-18-1 5681-57-2 7335-35-5
 54711-43-2
 RL: USES (Uses)
 (heat-sensitive compns. containing silver carboxylates and, for thermog.)
 RN 495-18-1 HCAPLUS
 CN Benzamide, N-hydroxy- (9CI) (CA INDEX NAME)



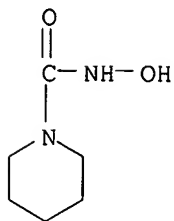
RN 5681-57-2 HCAPLUS
 CN Urea, N-butyl-N'-hydroxy- (9CI) (CA INDEX NAME)



RN 7335-35-5 HCAPLUS
 CN Urea, N-hydroxy-N'-phenyl- (9CI) (CA INDEX NAME)

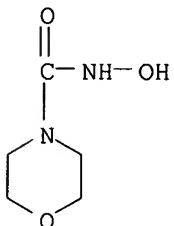


RN 54711-43-2 HCAPLUS
 CN 1-Piperidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)

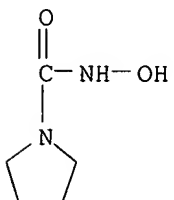


IT 54711-44-3P 54711-45-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 54711-44-3 HCAPLUS
 CN 4-Morpholinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



RN 54711-45-4 HCAPLUS
 CN 1-Pyrrolidinecarboxamide, N-hydroxy- (9CI) (CA INDEX NAME)



L65 ANSWER 31 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1973:130586 HCAPLUS
 DN 78:130586
 TI Photosensitive, thermally developable material containing spectrally sensitized organic silver salts
 IN Von Koenig, Anita; Kampfer, Helmut; Brinckman, Eric Maria; Heugebaert, Frans Clement
 PA **Agfa-Gevaert A.-G.**
 SO Ger. Offen., 106 pp.
 CODEN: GWXXBX
 DT **Patent**
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 2140462	A1	19730222	DE 1971-2140462	19710812 <--
	BE 787340	A2	19730209	BE 1972-1004278	19720809 <--
	IT 961949	B	19731210	IT 1972-52098	19720810 <--
	GB 1367417	A	19740918	GB 1972-37278	19720810 <--
	US 3933507	A	19760120	US 1972-279523	19720810 <--
	CA 993251	A1	19760720	CA 1972-149102	19720810 <--
	FR 2148647	A1	19730323	FR 1972-29220	19720811 <--
	JP 48028221	A	19730414	JP 1972-80386	19720812 <--
PRAI	DE 1971-2140462	A	19710812	<--	

AB **Light**-insensitive organic Ag salts can be sensitized with dyes of the cyanine, merocyanine, or hemioxonol type so that after a **light**-exposure in the presence of a reducing agent of the phenol, aminophenol, 3- pyrazolidinone or other types they develop a dark brown to black image when heated at 60-160° for 3-80 sec. The coating solns. contain 0.02-0.04 mole Ag salt/hg, 0.2-0.6 g dye and 1 mole reductant/mole of Ag salt, the 5-100 μ layers contain 0.3-0.6 g Ag/m². Salts of such metals as Hg, Pb, Cd, present during the Ag salt precipitation or added later, lower the

fog, increase the optical d., and shift the image tone. Also phthalimides and 2H-phthalazinones can serve as toners. Thus, a coating solution contained: 1 : 1 Ag behenate-behenic acid mixture 1.8 g, 1,1;-dimethylthiacarbocyanine p-toluenesulfonate 0.5 mg, bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 1 g, Hg(OAc)₂ 5 mg, 2H-phthalazinone 1 g, and poly(vinyl acetate) 2 g in MeCOEt 100 ml. The coating was sensitive in the 520-610 nm range and was developed at 82° in 15 sec.

IC G03C

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT 88-58-4 92-44-4 119-47-1 120-80-9, uses and miscellaneous
 123-31-9, uses and miscellaneous 541-09-3 543-90-8 602-09-5
 1096-84-0 1600-27-7 1706-69-0 1886-42-6 2223-93-0 3323-92-0
 3588-80-5 3943-91-7 4343-76-4 4427-56-9 4593-73-1 6283-24-5
 6777-09-9 7159-95-7 **7335-35-5** 13380-24-0 14143-25-0
 21036-55-5 24789-85-3 26817-00-5 **31225-17-9** 33145-10-7
 33709-30-7 41505-18-4 41505-19-5 41505-20-8 41505-21-9
 41505-22-0 41505-24-2 41505-27-5 41505-28-6 41505-29-7
 41505-30-0 41505-31-1 41505-36-6 41505-37-7 41505-40-2
 41505-41-3 41505-42-4 41505-44-6 41505-48-0 41505-49-1
 41505-51-5 41505-53-7 41505-58-2 41638-52-2 **41638-53-3**

RL: USES (Uses)

(photographic heat-developable compns. containing dye-sensitized organic silver salts and)

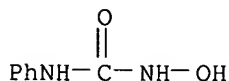
IT **7335-35-5 31225-17-9 41638-53-3**

RL: USES (Uses)

(photographic heat-developable compns. containing dye-sensitized organic silver salts and)

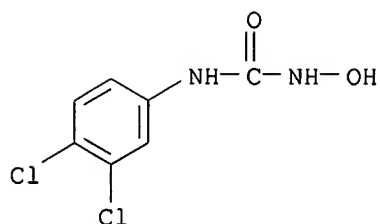
RN 7335-35-5 HCAPLUS

CN Urea, N-hydroxy-N'-phenyl- (9CI) (CA INDEX NAME)

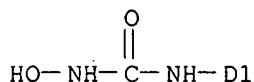
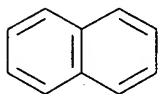


RN 31225-17-9 HCAPLUS

CN Urea, N-(3,4-dichlorophenyl)-N'-hydroxy- (9CI) (CA INDEX NAME)



RN 41638-53-3 HCAPLUS
 CN Urea, N-hydroxy-N'-naphthalenyl- (9CI) (CA INDEX NAME)



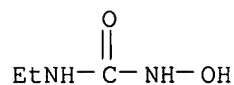
L65 ANSWER 32 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1971:428284 HCAPLUS
 DN 75:28284
 TI Photographic dry copying procedure
 IN Scheibitz, Maria; Von Koenig, Anita; Kampfer, Helmut; Mayer, Rudi; Sasse, Klaus; Kolb, Guenter; Honig, Hans L.; Meiser, Werner
 PA **Agfa-Gevaert A.-G.**
 SO Ger. Offen., 21 pp.
 CODEN: GWXXBX
 DT **Patent**
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1926658	A	19701126	DE 1969-1926658	19690524 <--
	US 3690884	A	19720912	US 1970-30337	19700420 <--
	GB 1315707	A	19730502	GB 1970-23659	19700515 <--
	BE 750774	A	19701123	BE 1970-750774	19700522 <--
	FR 2048746	A5	19710319	FR 1970-18862	19700522 <--
PRAI	DE 1969-1926658	A	19690524	<--	

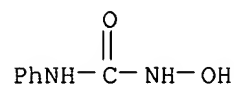
AB This dry copying process uses a **light** sensitive layer (A) containing an azide, e.g., 9-azidoacridine, 9-azido-2,3-benzacridine, or 4-azidoquinoline, together with a hydroxylamine derivative, m. >50°, e.g., N-phenyl-N'-hydroxyurea (I), N-methyl-N'-morpholinomethylhydroxylamine, or N-ethyl-N'-hydroxyurea. A may also contain a polymethine or merocyanine dye as spectral sensitizer. Following exposure, A is contacted with an image receiving layer (B) and heated to 80-200°, thus transferring the image. B contains a **light** insensitive salt of a heavy metal, e.g., CuCl₂, or the Ag salt of a long chain carboxylic acid. E.g., A is prepared from a solution of 30 mg bis [4-azidostyryl] ketone, 15 mg I, 10 ml MeCOEt, and 5 ml of a 5 solution of Et cellulose in MeCOEt which is coated on paper and dried. B is prepared from a mixture of 2.1 g of Ag behenate and behenic acid (1:1 molar

ratio) combined with 0.9 g 1-oxo-1,2-dihydrophthalazine, 8.4 g ZnO and 1.4 g coumaroneindene resin in 80 g of a 1.5 solution of poly(vinyl acetate) in Me₂CO and 53 g of a 4 solution of acetylcellulose milled for 6 hr. The mixture is coated on paper and dried. A is exposed to an image using a Hg 75-W lamp at a distance of 20 cm for 3 min and then heated in contact with B to give a brown pos. copy of the original.

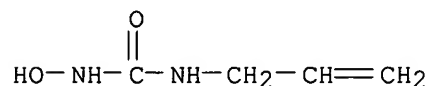
IC G11B
 CC 74 (Radiation Chemistry, Photochemistry, and Photographic Processes)
 IT Photoduplication
 (image-transfer dry-processing, **light**-sensitive layers containing
 azide and hydroxyurea derivs. for)
 IT 5710-11-2 7335-35-5 13585-90-5 16603-40-0
 28788-33-2 28875-12-9 31225-17-9
 RL: USES (Uses)
 (**light**-sensitive layers containing azido compds. and, for
 photoduplication)
 IT 5284-80-0 20237-98-3 21330-56-3 32112-96-2 32112-99-5 32113-05-6
 32113-07-8
 RL: USES (Uses)
 (**light**-sensitive layers containing hydroxyurea derivs. and, for
 photoduplication)
 IT 5710-11-2 7335-35-5 28788-33-2
 28875-12-9 31225-17-9
 RL: USES (Uses)
 (**light**-sensitive layers containing azido compds. and, for
 photoduplication)
 RN 5710-11-2 HCAPLUS
 CN Urea, N-ethyl-N'-hydroxy- (9CI) (CA INDEX NAME)



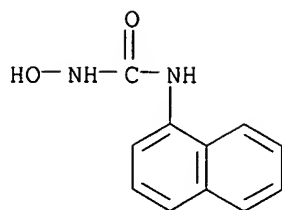
RN 7335-35-5 HCAPLUS
 CN Urea, N-hydroxy-N'-phenyl- (9CI) (CA INDEX NAME)



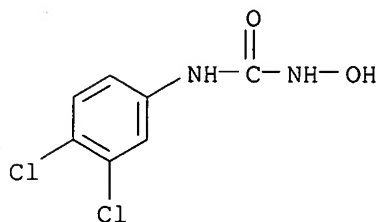
RN 28788-33-2 HCAPLUS
 CN Urea, 1-allyl-3-hydroxy- (8CI) (CA INDEX NAME)



RN 28875-12-9 HCAPLUS
 CN Urea, N-hydroxy-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



RN 31225-17-9 HCAPLUS
 CN Urea, N-(3,4-dichlorophenyl)-N'-hydroxy- (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 13:02:53 ON 12 FEB 2007)
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 13:03:10 ON 12 FEB 2007

L1 1 S US20040191432/PN OR (US2004-801356# OR US2003-461120# OR EP20
 E LOCCUFIER/AU
 L2 113 S E4-E8
 E LINGIER S/AU
 L3 32 S E3-E5
 L4 4690 S (AGFA? (L) GEVAERT?)/PA,CS
 E AGFAG/PA,CS
 SEL RN L1

FILE 'REGISTRY' ENTERED AT 13:05:34 ON 12 FEB 2007

L5 31 S E1-E31
 L6 26 S L5 NOT (C7H5CLO2 OR H3NO OR C7H15NO5 OR C9H20N2 OR C5H8CLNO2)

FILE 'HCAPLUS' ENTERED AT 13:15:09 ON 12 FEB 2007

L7 498 S L6
 L8 317 S L7 AND PY<=2003 NOT P/DT
 L9 127 S L7 AND (PD<=20030318 OR PRD<=20030318 OR AD<=20030318) AND P/
 L10 444 S L8,L9
 L11 4 S L1-L4 AND L10
 L12 4 S L1-L4 AND L7
 L13 4 S L11,L12
 L14 9 S L10 AND (INKJET? OR INK?(L)JET?)
 E INK-JET/CT
 E E8+ALL
 L15 1450 S E7+OLD
 E E6+ALL
 L16 3606 S E6+OLD,NT

L17 E E11+ALL
 8275 S E6+OLD
 E E10+ALL
 L18 4876 S E3+OLD
 L19 3 S L10 AND L15-L18
 L20 12 S L13,L14,L19
 L21 10 S L20 AND PRINT?
 L22 12 S L20,L21
 E LIGHT STABILIZER/CT
 L23 11238 S E4-E6
 E E4+ALL
 L24 15775 S E5,E9
 L25 5 S L10 AND L24,L23
 L26 12 S L22,L25

FILE 'REGISTRY' ENTERED AT 13:20:09 ON 12 FEB 2007

L27 STR
 L28 50 S L27 CSS SAM
 L29 50517 S L27 CSS FUL
 SAV TEMP L29 SHEWAR801/A
 L30 50491 S L29 NOT L6
 L31 50150 S L30 NOT (CCS OR PMS OR IDS OR MXS OR MNS OR AYS OR TIS)/CI
 L32 49818 S L31 NOT SQL/FA

FILE 'REGISTRY' ENTERED AT 13:23:25 ON 12 FEB 2007

L33 673 S L30 NOT L32

FILE 'HCAPLUS' ENTERED AT 13:23:35 ON 12 FEB 2007

L34 16015 S L30
 L35 9471 S L34 AND PY<=2003 NOT P/DT
 L36 3953 S L34 AND (PD<=20030318 OR PRD<=20030318 OR AD<=20030318) AND P
 L37 13424 S L35,L36
 L38 12 S L37 AND L15-L18
 L39 17 S L37 AND INK?(L)JET?
 L40 17 S L38,L39
 L41 15 S L40 AND PRINT?
 L42 26 S L40,L41,L26
 L43 14 S L42 AND RECORD?
 L44 10 S L42 AND SHEET?
 L45 26 S L42-L44
 L46 5 S L45 AND L23,L24
 L47 26 S L45,L46
 SEL HIT RN

FILE 'REGISTRY' ENTERED AT 13:25:23 ON 12 FEB 2007

L48 51 S E1-E51
 L49 25 S L48 NOT L6
 L50 23 S L49 NOT PMS/CI

FILE 'HCAPLUS' ENTERED AT 13:26:35 ON 12 FEB 2007

L51 5076 S L50
 L52 3558 S L51 AND PY<=2003 NOT P/DT
 L53 768 S L51 AND (PD<=20030318 OR PRD<=20030318 OR AD<=20030318) AND P
 L54 16 S L52,L53 AND (INK?(L)JET? OR L15-L18)
 L55 16 S L54 AND (PRINT? OR RECORD? OR SHEET?)
 L56 25 S L54,L55,L26
 L57 10 S L2-L4 AND L34
 L58 10 S L57 AND L37
 L59 32 S L56,L57,L58
 L60 25 S L59 AND (INK?(L)JET? OR L15-L18 OR PRINT? OR RECORD? OR SHEET

L61 7 S L59 NOT L60
L62 32 S L60,L61
L63 6 S L23,L24 AND L62
L64 12 S L62 AND (LIGHT OR UV OR ULTRAVI?)
L65 32 S L62-L64

FILE 'REGISTRY' ENTERED AT 13:30:21 ON 12 FEB 2007

FILE 'HCAPLUS' ENTERED AT 13:30:43 ON 12 FEB 2007

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